Prices of Engineering Materials

PRICE CHANGES AND THE BUSINESS OUTLOOK

Distinct improvement in the financial situation has marked the course of the month's events. Several weak stocks, which might have led to considerable trouble, have been cleared up. This does not, by any manner of means, indicate that money or capital is cheap, but a part of the task has been accomplished successfully. The ability of London to draw gold from the United States is evidently diminishing, and it is probable that by the first of November the balance of exchange will turn in favor of the United States. This does not mean that gold will flow back to us, but it will mean an end to the heavy outflow which has been so marked.

While it is difficult to secure capital, and the price is practically prohibitive in some instances, it is well to note that New England municipalities have been able to float long-term bond issues and the short-term notes of railways and industrial companies coming due are taken care of as they mature. Capital is undoubtedly accumulating, but it is not available for new construction. Numerous instances are found where contractors have taken bonds in payment for their work in lieu of the possibility of the work's being postponed.

Railroad construction is at the lowest point since the depression of the '70's, less money being put into permanent improvements by railways at this time, in proportion to the value of their property, than ever before. This is particularly noticeable in the purchases of new equipment and new motive power. The railway rate case has been reopened, but apparently, from newspaper accounts, there is little hope of any relief being granted.

The iron and steel industry is at a lower ebb than at any time in recent history. Export orders are few; the small amount of new construction in the United States has practically stopped the buying of steel. In fact, the output of the mills now is insufficient to take care of the replacements which should be made. As an indication of the hard position of the steel companies, it is noted that the United States Steel Corporation cut the dividend rate on its common stock to one-half of one per cent. The former rate was one and one-quarter per cent. quarterly.

The export situation is much improved. The buying of machine tools by the belligerent powers has been large; likewise, ammunition, horses, and automobiles. The purchasing agents of various foreign governments have been busily engaged during the last few days in buying automobiles and it is probable that this country will have an opportunity to furnish as much war material as it can produce.

Foreign trade is rapidly assuming normal proportions. Large shipments of foodstuffs and military supplies, as well as the belated shipments of cotton now beginning, are rapidly clearing the situation, and it is probable that foreign exchange will shortly turn in favor of the United States, particularly if European holders of American securities do not sell them in this market. This is of course impossible as long as the New York Stock Exchange remains closed.

Advertisements of contracts in which it is definitely stated that the contractor will be paid in bonds of the municipality or county, are common. This is simply another way of getting around the law prohibiting the sale of stocks or bonds at less than par.

Financial relief will probably be found for the more hard-pressed cotton planters, but the cotton states have suffered a severe setback which cannot be minimized. Their ability to go into diversified farming another year may mean much continued prosperity, but it does not buy food and clothes for this winter.

Added to the long list of dividends which have been passed since the announcement of the war, comes the reduction in the quarterly disbursement of the United States Steel Corporation. This conservative policy may not be to the liking of investors, but it is thoroughly sound, and will make for better business in the future.

The inability of railways to secure funds, as well as municipalities and industrials, during the past two or three years, is now generally recognized as being due more to the preparation of European nations for a general war, than any other one thing. While it is not much consolation to ascertain this, it is some satisfaction to find out that after all, the ills to which we have been subject were not all of our own making.

Labor is anxious to work, and at comparatively any wage. Factory help is very plentiful. Rough labor is in larger supply than at any other time in the last half dozen years.

An indication of better business in mill construction is the recent award made by the Naumkeag Steam Cotton Co., Salem, Mass., to the Turner Construction Co., 11 Broadway, New York, N. Y., for the construction of a mill and storehouse. The mill will be four stories and basement, 135x722 ft., and the storehouse five stories and basement, 82x500 ft., both of reinforced concrete.

LABOR

Conditions for the worker are more unsatisfactory than they have been since the panic of 1907, and in fact, at that time there was more hope for a better employment of labor in the near future than there is at present. It is evident that even should the railways secure higher rates, and consequently have more funds, they would apply these funds to liquidating past indebtedness before making new improvements. With the cities and municipalities restricted in their borrowing power as they are, there will be less construction than in several years. The building industry during the winter, at least, will be cut down to small proportions.

CEMENT, LIME AND BRICK

Cement—Manufacturers of cement have not had as much business as they expected; that is, strictly new business. Deliveries on old contracts, however, have kept up surprisingly well, particularly in and around New York, and one of the peculiar features of the situation is the report that the sellers of Rosendale cement have disposed of more cement this year than in several years past. Moreover, the towing business on the Hudson River has been more satisfactory than ever before. There is no cutting the price of cement, and while it is likely that a good deal of the production of the Lehigh Valley District will have to be cut down, it is significant to note likewise that the towing businesss on the Hudson River has been more active than in several years. An export demand has made itself felt, but due to the inability of bankers to provide a medium of exchange and to extend credit, there has been practically no business closed. Moreover, steamship accommodations are most unsatisfactory, particularly for this kind of material, which must go at a low rate or not at all.

In the West prices are 5c. per bbl. lower:

The quotations given below do not include the allowance of 40c. made for bags returned:

Boston	$1.32	Chicago	$1.10
Cleveland	1.25	Detroit	1.14
Duluth	1.33	Jersey City	1.06
Minneapolis	1.30	New York	1.18
Pittsburgh	1.05	St. Paul	1.30

Lime—Business is quiet, but prices are unchanged at 97c. per bbl. for state common, 200 lb. net; $1.37 for 300 lb. "Star"; $1.55 for 300 lb. finishing; $1.10 for 200 lb. finishing and $1.72 for 350 lb.

Brick—Prices are even lower than a month ago. For Hudson River common brick, delivered New York, the market is $5 to $5.25, being weak at that. Raritan River bricks are $5.25 to $5.50. Stocks appear to be accumulating in all markets.

CRUSHED STONE, SAND AND GRAVEL

Crushed Stone—The market continues without change. The quotations are absolutely nominal, 1½-in. stone selling at 90c., while ¾-in. stone sells at 95c. to $1.05. These quotations are for full cargo lots of 500 cu.yd., delivered alongside of dock, New York.

Sand and Gravel—Gravel is quoted at 90c. for 1½-in., but special gravel, which will pass subway specifications, is held at $1.15. Sand sells for 50c. per cu.yd. The above quotations are for full cargo lots of 500 cu.yd., delivered alongside of dock, New York.

In Boston, gravel sells for 35c. per cu.yd. at quarry 35 miles out, the freight rate to Boston being 40c.

IRON AND STEEL

Pig Iron—The market has never been quite as dull since the depression of 1893 as it is at present. Even the financial panic of 1907, which resulted in a cutting down of production, was more drastic, perhaps, than at present, but there was some business. Now the trade seems to be at a standstill. A few foundries in New England have bought sparingly, and some cast-iron pipemakers have been in the market. But as a general rule, prices are slowly crumbling, and even at that, no buyers come into the market. It is significant that producers in the Alabama field maintain a price of $10, but stocks are accumulating in the yards in large amounts.

Quotations for lots of 100 tons or over, ports named, are as follows: Cincinnati Southern Foundry No. 2, $13 to $13.50; Cincinnati Northern Foundry No. 2, $14.25 to $14.75; Cincinnati Northern Foundry No. 3, $14 to $14.25; New York Northern Foundry No. 1, $14.50 to $14.75; New York Northern Foundry No. 2X, $14.25 to $14.50; New York Northern Foundry No. 2 Plain, $13.75 to $14. Southern iron in the New York market is $14.25 to $14.50 for No. 2. Southern Foundry No. 2, Birmingham, $10.

Steel Rails—There is practically no new business. Some of the Western lines are buying rails, but prices are nominal.

These quotations are for lots of 500 tons and over: Standard sections of bessemer rails, $28; open-hearth rails, $30. These quotations are f.o.b. Pittsburgh: Girder rails, 30-ft. lengths, $36.40 per gross ton, and in 60-ft. lengths, $38.40, both f.o.b. New York. Other quotations, f.o.b. Pittsburgh, for large lots, are as follows: Standard sections, $1.25; 25- to 45-lb. sections, $1.15; 16- and 20-lb., $1.20; 12- and 14-lb., $1.25; 8- and 10-lb., $1.30.

Structural Shapes—Business is no worse than a month ago, except some of the shops have finished the work booked earlier and there are few new jobs coming in. Railroads work is at a standstill, but new building has not fallen off as much as many feared. Prices are more or less nominal at a reduction of $1 per ton compared with last month. The base quotation is $1.15 to $1.20, Pittsburgh, for I-beams, 2 to 15 in.; channels, 2 to 1 in., angles, 2 to 6 in., and V's, 3 in. and over. For other sizes, $1.25 to $1.30 is demanded. For T's, $1.20 to $1.25; channels and T's under 3 in., $1.25 to $1.30; handrail T's, $1.95 to $2.10. Cutting to specified lengths is charged at the following rates: Under 3 ft. to 2 ft., inclusive, 25c. per 100 lb.; 2 ft. to 1 ft., inclusive, 50c. per 100 lb. Cutting to lengths under 1 ft., $1.55. No charges made for cutting to specified lengths over 3 ft.

Track Supplies—There is little business, but some extremely low quotations have been made for tie-plates, one order for 2000 tons going at around $25 per ton at the mill. Railroad spikes are $1.50 to $1.60, track bolts, with square nuts, $1.90 to $2, and angle bars $1.50.

The extras on railroad spikes are as follows:

Railroad spikes.	Cents
3, 3½, 4 4½ and 5x½	Extra .10
3½, 4 and 4x⅝	Extra .20
3, 3½, 4 and 4½x⅜	Extra .30
2½x⅜	Extra .40
2½, 3 and 3½x⅞	Extra .60

Plates—There are very few new orders, and the outlook for car orders does not indicate any betterment in that line of trade. Prices are weaker, plates in Pittsburgh selling at $1.10. In Chicago, the price is $1.28 at mill and $1.75 from store.

Pipe—An inquiry is in the market for considerable line pipe, but the slowing down of foreign demand for oil would indicate that very little of this kind of construction will be undertaken in the near future. The demand for smaller sizes of pipe has fallen off in about the same proportion.

Discounts applying to the standard list are as follows:

	Black	Galvanized
¾ - to 2-in. steel butt welded	80%	71½%
2½ - to 6-in. steel lap welded	79%	70½%
7 - to 12-in. steel lap welded	76%	65½%

At these discounts, the net prices of pipe per foot at Pittsburgh are as follows:

Diameter	Cents Black	Cents Galvanized	Diameter	Cents Black	Cents Galvanized
¾-in.	2.30	3.27	5-in.	31.00	43.60
1-in.	3.40	4.85	6-in.	42.00	56.80
1¼-in.	4.60	6.50	7-in.	57.00	80.00
1½-in.	5.50	7.80	8-in.	60.00	86.00
2-in.	7.40	10.50	9-in.	84.50	$1.19
2½-in.	12.20	17.30	10-in.	99.00	$1.42
3-in.	16.00	22.60	11-in.	$1.12	$1.60
4-in.	22.90	32.30	12-in.	$1.22	$1.74

Sheets—Prices are from $1 to $2 per ton lower. The mills are operating to about 50% of capacity. Prices are as follows:

The following quotations are for large lots of sheets in Pittsburgh, and small lots from store, New York.

	Cents per Pound — Large lots Pittsburgh		Ware house delivery New York	
	Black	Galv.	Black	Galv
No. 10	1.60	1.90	2.20	
No. 12	1.60	2.00	2.45	2.75
No. 14	1.65	2.00	2.30	2.75
No. 16	1.70	2.15	2.40	2.85
Nos. 18 and 20	1.75	2.30	2.45	3.00
Nos. 22 and 24	1.80	2.45	2.50	3.15
No. 26	1.85	2.60	2.55	3.30
No. 27	1.90	2.75	2.60	3.45
No. 28	1.95	2.90	2.65	3.60

Wire Rope—Revised discounts are 47 and 2½% from list for galvanized and 55 and 2½% for the bright. At these discounts the net price of wire rope at the mills is as follows:

Diameter in inches	Price per foot — Cast steel	Crucible steel	Plow steel
2½	$0.76	$0.91	$1.08
2¼	0.62	0.73	0.86
2	0.50	0.58	0.68
1¾	0.39	0.48	0.56
1½	0.29	0.35	0.40
1¼	0.20	0.24	0.28
1	0.14	0.16	0.19
¾	0.09	0.10	0.11
⅝	0.06	0.07½	0.08

Steel Shapes—Quotations from warehouse New York are unchanged from last month as follows:

Refined iron.	Cents Per lb.
1 to 1⅞ in., round and square	1.80
1½ to 4 in. x ⅜ to 1 in.	1.80
1½ to 4 in. x ¼ to ⅛ in.	2.00
Norway bars	3.20
Burdens bar iron	3.15
Soft steel:	
¾ to 3 in., round and square	1.80
1 to 6 in. x ⅜ to 1 in.	1.80
1 to 6 in. x ¼ and ⅛ in.	1.95
Rods—⅝ and ½ in.	1.90
Bands—1½ to 6x⅛ in. to No. 8	2.10
Beams and channels—3 to 15 in.	1.85
Angles:	
3 in. x ¼ in. and larger	1.85
3 in. x ⅛ in. and ⅛ in.	2.30
1½ to 2¾ in. x ⅛ in. and thicker	1.95
1½ to 2½ in. x ⅛ in.	2.05
1 to 1¼ in. x ⅛ in.	2.05
1 to 1¼ in. x ¼ in.	2.10
1½ to 2½ x ¼ in.	2.00
1½ to 2½ x ⅛ in.	2.10
3 in. and larger	1.90

Old Material—The market has seldom been in as unsatisfactory a state as at present. Prices are lower than before in years, considering the quotations for new material, and reductions of 50c. and 75c. a ton have been made below the extremely low prices ruling about the first of August. In New York, there is practically no business, and the quotations given below are largely nominal. They are as follows, per gross ton, delivered in New York:

	Per Net Ton
Heavy-melting steel scrap	$7.25 to $7.50
Pipes and flues	7.25 to 7.50
No. 1 railroad wrought	9.50 to 10.00
Stove plate	7.00 to 7.50
Malleable cast	7.25 to 7.75
No. 1 machinery cast	9.50 to 10.00
No. 1 yard wrought long	8.00 to 8.50
Wrought turnings	5.25 to 5.75

In Chicago, the market is not quite as unsatisfactory. Some sales have been made by the railways, but prices in general are so low that no effort is being made to ship scrap except where storage yards are too congested to permit of any further accumulation. It is notable that the consumers and buyers of scrap are purchasing some on a speculative basis. Quotations are as follows:

	Per Gross Ton
Heavy-melting steel scrap	$8.50 to $8.75
	Per net ton
No. 1 railroad wrought	$7.75 to $8.00
No. 2 railroad wrought	7.25 to 7.50
No. 1 cast scrap	9.00 to 9.25
Pipes and flues	5.50 to 5.75
Agricultural malleable	7.50 to 7.75
Railroad malleable	8.00 to 8.25

In Pittsburgh, heavy-smelting steel scrap has sold as low as $10.50. The Pennsylvania R.R. and the Baltimore & Ohio R.R. both are putting out lists indicating that they have more scrap for sale than usual at this time of year. Reductions in Pittsburgh are not as drastic as in other parts of the country. Quotations per gross ton are as follows:

Heavy-melting steel scrap	$10.50 to $10.75
Re-rolling rails	12.00 to 12.25
No. 1 foundry cast	11.50 to 11.75
Old car wheels	11.25 to 11.50
Machine shop turnings	6.75 to 7.25
Railroad malleable	10.50 to 10.75

Chain—Prices are steady and without change, as follows: These prices are per 100 lb., f.o.b., Pittsburgh:

⅜ in.	$7.50	½ and ⅝ in.	$3.00
7/16 in.	4.95	⅝ and ¾ in.	2.90
½ in.	3.95	¾ and ⅞ in.	2.80
⅝ in.	3.40	⅞ and 1 in.	2.70
¾ in.	3.20	1 to 1¼ in.	2.60

EXTRAS TO ABOVE LIST PER 100 POUNDS

	For BB	For BBB
⅜-in. and ¼-in.	$1.50	$2.00
7/16-in. and larger	1.25	1.75

REINFORCING MATERIALS

Bars, Concrete Reinforcing—The demand is very light and no extreme quotations have been named in New York. It is probable that some concessions would be made from the following prices which are repeated from last month:

Size	Cents per pound — Mill shipments Pittsburgh	Warehouse Pittsburgh	Delivered from warehouse New York
¾-in. and larger	1.20	1.70	2.30
⅝-in.	1.25	1.70	2.35
½-in.	1.40	2.00	2.35
⅜-in.	1.50	2.10	2.50
¼-in.	1.80	2.35	2.80

Triangle Mesh—Quotations are without change as follows:

PRICE PER 100 SQ.FT.

Style No.	Cross sec. area per ft. width	Plain material — Carload lots	Plain material — Less than car lots and over 10,000 sq.ft.	Galvanized — Carload lots	Galvanized — Less than car lots and over 10,000 sq.ft.
*4	$0.102	$1.00	$1.23	$1.12	$1.34
5	0.077	0.80	0.97	0.89	1.00
6	0.058	0.63	0.77	0.71	0.84
*7	0.041	0.49	0.60	0.55	0.66
*23	0.170	1.69	2.05	1.88	2.24
24	0.142	1.46	1.77	1.62	1.93
25	0.124	1.29	1.57	1.43	1.71
*26	0.110	1.17	1.42	1.30	1.55
*27	0.085	0.96	1.17	1.07	1.28
28	0.066	0.80	0.97	0.89	1.06
29	0.049	0.66	0.80	0.73	0.87
31	0.261	2.49	3.02	2.76	3.29
32	0.225	2.16	2.62	2.40	2.86
33	0.196	1.93	2.34	2.14	2.55
34	0.146	1.48	1.80	1.64	1.96
35	0.109	1.117	1.42	1.30	1.55
36	0.075	0.87	1.05	0.97	1.15
38	0.380	3.55	4.30	3.93	4.68
*39	0.325	3.05	3.70	3.38	4.03
40	0.283	2.68	3.25	2.97	3.54
41	0.208	2.05	2.48	2.27	2.70
42	0.151	1.55	1.88	1.72	2.05
*43	0.101	1.10	1.34	1.23	1.46

*This material is made in regular widths of 18, 22, 26, 30, 34, 42, 46, 50, 54 and 58 in. Standard lengths in rolls are 150, 250, 300 and 600 ft.

METALS

Copper—It is becoming more and more evident day by day that the price of copper and of products made of this metal must go to new levels. With the market almost as dull as possible, with scarcely any business of quantity, comes the announcement that the British Government has put copper on the contraband list, with a view to shutting off supplies which go to Germany by way of Holland and Denmark. This is a serious blow to the copper industry in the United States, for Germany would continue to take much metal. The dullness has had little effect on prices. Sales have been at 11¼ to 11½c., delivered in New York. The unevenness in the market is seen by quotations of 12 to 12½c. for copper wire in carload lots at the mill, 16½c. for copper sheet. In Germany, electrolytic copper sells at about 20c.

Tin—The price of tin dropped below the 30c. level early in the month, but later advanced to 31¾c., when announcement was made that a ship carrying 1000 tons of tin had been sunk. When it is realized that 1000 tons of tin is about 8% of the visible supply all over the world, the importance of such a loss can be seen. But even this had little effect in keeping the price up, for by the end of October it had again dropped below 30c. Quotations range from 29½ to 30½c. for large lots, depending on the nature of the transaction.

Lead—The market is again easier, sales in New York being made at 3.50c., and the St. Louis market quoted at 3.35 to 3.40c.

Spelter—The market has declined again, and 5.05 to 5.15c. is demanded in New York, while in St. Louis, prime Western brands of spelter can be had at 4.95c.

Aluminum—The metal is quiet and prices are easier, 18 to 19c. per lb. for No. 1 ingot in large lots.

Antimony—All the antimony used in the United States is imported. At the outbreak of the war, there were large stocks on hand in this country. At that time, prices shot up rapidly, but later declined. Antimony is now being shipped abroad. Quotations are much unsettled, ordinary brands selling at 14 to 15c., and Cookson's at 17½ to 18c.

Miscellaneous Metals—The following quotations are per lb. for small lots, but they may be shaded for desirable orders:

Bismuth	$3.75 to $4.00
Brass tubes, iron-pipe sizes:	
½-in.	.16
¾- to 3-in.	.15
3½-in.	.15
4-in.	.16
Brass rods	.13¾
Brass sheets	.14
Solder, half and half guaranteed	.21
Zinc sheets	9 to 9½
Copper sheets, base	.16½
Pig tin (five-ton lots, cash)	.30

Old Metals—The following quotations are for small lots delivered at buyer's warehouse:

	Cents
Copper, heavy and crucible	10.00
Copper, heavy and wire	9.50
Copper, light and bottoms	8.50
Brass, heavy	7.25
Brass, light	5.25
Heavy machine composition	8.75
Composition turnings	8.00
Lead, heavy	3.00
Lead, tea	2.75
Zinc scrap	3.25

MILL SUPPLIES

Belting—The market is without change. Discounts on leather belting are as follows: Extra heavy, 50@50 and 5%; heavy, 50 and 10@60%; medium, 60 and 5@65%; standard, 60 and 10@60, 10 and 10%. The discounts applying to rubber belting are as follows: Standard, 60 and 10@60, 10 and 10%; best grades, 50@50 and 10%. The net prices per foot of rubber belting given below are figured at the discount of 50 and 10%.

RUBBER BELTING, NET PRICE PER FOOT

	2-Ply	4-Ply	6-Ply	8-Ply
3	$0.10	$0.14	$0.21	....
4	.13	.19	.28	....
5	.16	.23	.35	....
6	.19	.28	.42	$0.56
7	.23	.33	.49	.66
8	.26	.38	.57	.76
9	.30	.43	.64	.85
10	.34	.48	.72	.96
12	.41	.58	.88	1.17
14	.49	.69	1.04	1.38
16	.56	.80	1.20	1.61
18	.63	.91	1.36	1.82
20	.71	1.02	1.52	2.03
22	.78	1.13	1.70	2.27
24	.88	1.26	1.89	2.52
26	.97	1.38	2.08	2.77
28	1.06	1.51	2.27	3.02
30	1.15	1.64	2.46	3.27
34	1.33	1.89	2.83	3.78
38	1.51	2.14	3.21	4.28
42	1.69	2.39	3.59	4.79
46	1.87	2.65	3.97	5.29
50	2.05	2.90	4.35	5.79
56	2.32	3.28	4.91	6.55
60	2.50	3.53	5.29	7.06

Lubricating Oils—For delivery in New York in 5-bbl. lots, prices are as follows:

	Cents per gal.
*Cylinder, dark	19@23
*Cylinder, steam refined	13@19
Neutral oils, filtered:	
Stainless, white, 32 to 34 gravity	26@28
Lemon, 33 to 34 gravity	16@16
Dark, 32 gravity	14@16
Crank case oil	14@16

*Prices are according to test.

Shafting—The only consumers of importance are the automobile makers. The discount for large lots is 66% from list. At this discount, the net prices per foot of cold-drawn steel shafting in Pittsburgh are as follows:

Diameter in inches	Cents per foot	Diameter in inches	Cents per foot
¾	2.80	2	23.00
1	4.97	2¼	23.00
1¼	7.72	2½	28.36
1⅜	9.44	2¾	34.31
1½	10.20	3	41.90
1⅝	11.97	3½	61.04
1¾	13.87	4	86.70
1⅞	15.96		

CLAY PRODUCTS

Flue Lining—Discounts are unchanged at 83% from list. At this discount, the net prices per foot for New York delivery are as follows:

	Weight in lb.	Price per ft.		Weight in lb.	Price per ft.
4½x8½-in.	14	$0.06	8½x18-in.	45	$0.152
4½x13-in.	20	0.076	13x13-in.	45	0.145
7½x7½-in.	15	0.068	13x18-in.	57	0.22
8½x8½-in.	18	0.076	18x18-in.	75	0.34
8½x13-in.	28	0.11			

Sewer Pipe—In the smaller sizes, there has been a slight drop in price, 3- to 24-in. being quoted at a discount of 82%. In the larger sizes, discounts remain unchanged, as follows: 27- and 30-in., 70%; 33- and 36-in., 65%. At these discounts, the net prices per foot in New York are as follows:

Size		Size	
3-in.	$0.045	18-in.	$0.342
4-in.	0.045	20-in.	0.405
5-in.	0.072	22-in.	0.54
6-in.	0.072	24-in.	0.585
8-in.	0.099	27-in.	1.35
10-in.	0.144	30-in.	1.65
12-in.	0.18	33-in.	2.20
15-in.	0.243	36-in.	2.45

Railway Ties—Business during the month has been exceedingly dull. Standard sizes of yellow-pine cross ties are quoted as follows: 7x9 in. by 8 ft. 6 in., 76c.; 6x8 in. by 8 ft., 64c.

MISCELLANEOUS

Wood Preservatives—Special preservatives for lumber are sold at the following prices per gallon delivered to points in this country: Pentin, a flame proof preservative, 80c. per gal.; Creolin, a creosote, flame proof, 45c. per gal.; Maretin, a preservative for marine use, 60c. per gal.

Lighterage Limits—The free delivery or "Lighterage Limits" in New York City are as follows: In Manhattan, from a point opposite the Fort Lee ferry, south along the Hudson River around the Battery and north along the East and Harlem Rivers to the Jerome Ave. Bridge at 155th St. In New Jersey, south from Fort Lee ferry to Bayonne City, points on the north and east shores at Staten Island, between Bridge Creek (Arlington) and Clifton, both inclusive, and including Elm Park, Erastina and Shooters Island. In Brooklyn, from 69th St., Bay Ridge, north to Pot Cove, Astoria, Long Island City.

Asbestos—Asbestos building felt and sheathing in less than ton lots is 3½c. per lb. for the light, weighing from 6 to 30 lb. per 100 sq.ft.; 4c. per lb. is charged for the heavy, weighing from 45 to 56 lb. per sq.ft.

Millboard is made in standard sheets, 40x40 in., and 41x48 from 2 to 27 lb. per sheet. The net price in 100-lb. lots is 5c. per lb.

Asbestos wood, used for fireproofing, ventilators and smoke jacks, comes in sheets, 36x48 in., 42x48 in. and 42x96 in. The prices per sheet, f.o.b. factory, in New England, are as follows:

Thickness	Weight, pounds	Price	Thickness	Weight, pounds	Price
1/16-in.	1	$0.08	5/8-in.	5	$0.40
3/16-in.	1½	0.12	3/4-in.	6	0.44
1/4-in.	2	0.16	7/8-in.	7	0.48
5/16-in.	2½	0.20	1-in.	8	0.52
3/8-in.	3	0.28	1¼-in.	10	0.56
7/16-in.	3½	0.28	1½-in.	12	0.64
1/2-in.	4	0.32	1¾-in.	16	0.72
9/16-in.	4½	0.36	2-in.	16	0.80

Asbestos sheathing, corrugated, sells at 15c., per sq.ft. f.o.b. mill eastern Pennsylvania.

Telegraph Wire—The demand for telegraph wire has been fair. For lots of fair size, the wire measured in Birmingham wire gage, prices are as follows: "Extra Best," Nos. 6 to 9, 4⅜c.; Nos. 10 and 11, 4½c.; No. 12, 4⅝c.; No. 14, 5⅛c.; "Best Best" Nos. 6 to 9, 3½c.; Nos. 10 and 11, 3⅝c.; No. 12, 3½c.; No. 14, 4c. Actual freight is allowed from Trenton, N. J., where it does not exceed 25c. per 100 lb.

Explosives—Dynamite of the kind generally used by contractors is approximately 11@13c. per lb., f.o.b. factory, in ton lots. Blasting powder, classified as "soda" grade, is sold at $1.20@1.40 per keg of 25 lb. in lots of 10,000 lb.

Exploders, per hundred, are sold at the following prices: 4 ft., $3.60; 6 ft., $4.10; 8 ft., $4.60; 10 ft., $5.10; 12 ft., $5.60; 16 ft., $6.60; 20 ft., $7.50; 25 ft., $9.40; 30 ft., $12; 36 ft., $14.60.

Caps in lots of 10,000 are $7@8 per thousand.

Blasting machines for 10 holes are $12; 25 holes, $20; 50 holes, $40; 100 holes, $60.

Chain Belting—Prices continue unchanged. Quotations are as follows: From 3 hp. to 10 hp., 30-in. centers complete with two sprockets, $7@8 per horsepower. From 10 hp. to 25 hp., 36-in. centers complete, $5@6 per horsepower. For 25 hp. to 100 hp., 56-in. centers complete, $4@5 per horsepower. From 100 hp. to 500 hp., 72-in. centers complete, $3@4 per horsepower.

Construction News

★Denotes work advertised in ENGINEERING NEWS.
✚Denotes contract awarded. The names of bidders awarded contracts are set in CAPITALS.

RAILWAYS

✚**Kentucky**—Louisville & Nashville R.R.—This company is constructing 2½ miles of track at Hatfield, Ky.

Illinois—Quincy & Hamilton Ry.—This company has been incorporated to construct a railway from Quincy, Ill., to Hamilton, Ill., about 35 miles. The incorporators are C. S. Carscallen, C. D. Warren, Toronto, Ont., C. H. Petsche, St. Paul, Minn., E. D. Parmalee, Chicago, Ill., E. W. Wood and R. Wallace, Hamilton, Ill.

✚**Wisconsin**—Chicago & Northwestern R.R.—This company has awarded a contract to the CLEARY, WHITE & DUFFY CO., for the construction of the Kingston-Crandon line in Wisconsin.

Texas—Uvalde & Northern R.R.—This company is making arrangements to resume work on the construction of its line from Uvalde to Leahy, Tex., about 50 miles. F. H. Dillon, Sansom, Tex., is Ch. Engr.

Kansas City, Mexico & Orient Ry.—According to press reports plans are being prepared by this company for the extension of its line from Fort Stockton to Del Rio, Tex. R. P. Parker, San Angelo, Tex., is Ch. Engr.

John D. Kinney, Austin, Tex., is interested in the construction of a railway from Austin to Big Springs, Tex., about 272 miles.

Idaho—Oregon Short Line R.R.—This company contemplates the purchase of the Gilmore & Pittsburg Ry., and extending the line from Salmon, Idaho to Grangeville, Idaho. Carl Stradley, Salt Lake City, Utah, is Ch. Engr.

Idaho—Nez Perce & Idaho Ry.—The Farmers Union, Nez Perce, Idaho, and the Nez Perce Commercial Club are interested in a movement to secure stock subscriptions for the extension of this company's line from Nez Perce to Waha.

Oregon—Northern Pacific Ry.—A cash bonus and right-of-way will be offered to induce this company to construct a 13-mile spur from Myrick to Holdman, Ore. R. O. Earnhart, Pendleton, Ore., is interested.

California—Atchison, Topeka & Santa Fé Ry.—An expenditure of $55,000 will be made by this company for the construction of coach washing tracks and narrow gage push car tracks in connection with its line through Los Angeles, Calif. F. M. Bisbee, Amarillo, Tex., is Ch. Engr. Western lines.

ELECTRIC RAILWAYS

Brockton, Mass.—The Bay State St. Ry. has requested the Council to grant a franchise for the relocation of its tracks on South St. and Pleasant St. A. P. Emmons, Boston, is Pur. Agt.

Franklin, Mass.—The Milford, Attleboro & Woonsocket St. Ry. will relocate its tracks on West Central St., Franklin. H. C. Page, Worcester, is Gen. Mgr.

New Haven, Conn.—The Connecticut Co. plans to extend its Dixwell Ave. line two miles beyond the city limits to Centerville town hall. F. P. Harlan, New Haven, is Mgr.

Long Branch, N. J.—The city will coöperate with the Freehold Merchants Association to construct an electric railway from Trenton to the seashore.

Cumberland, Md.—The Cumberland & Westernport Electric Ry. Co. has applied to the Public Service Commission for permission to extend its railway from Cumberland to connect with the Lonaconing line, about two miles.

Jacksonville, Fla.—The Jacksonville Traction Co. is preparing to extend its lines on Albert and Spearing St., Jacksonville. Hardy Croom, Jacksonville, is Mgr.

Algiers (New Orleans post office), **La.**—Meyer Eiseman, Algiers, is interested in the construction of an electric railway in Algiers.

Cincinnati, Ohio—Plans are being prepared by the Cincinnati Traction Co. for the construction of a belt line in Cincinnati. T. Fitzgerald, Cincinnati, is Gen. Mgr.

East St. Louis, Ill.—The East St. Louis & Suburban Ry. Co. is considering plans for the extension of its line to Mascoutah, about seven miles. G. L. Estabrook, Philadelphia, Penn., is Secy.

St. Paul, Minn.—The St. Paul City Ry. Co. has been petitioned to construct an electric railway on St. Clair St. from West Seventh to Oxford St. J. J. Caufield, Minneapolis, is Gen. Supt.

Ogden, Utah—The Ogden Rapid Transit Co. and the Logan Rapid Transit Co. have been consolidated under the name of the Ogden & Idaho Ry. Co. The new company will extend the lines from Ogden, Brigham and Logan. M. S. Browning is Pres.

✚**Fallon, Nev.**—The Fallon Electric Ry. Co. has awarded a contract to the BERNEY CONSTRUCTION CO. for grading its proposed electric railway from Fallon to Sand Springs, about 16 miles.

Bisbee, Ariz.—The Board of Supervisors have been asked by W. E. Bradley to grant a franchise for the construction of an electric railway from Bisbee to Naco.

Spokane, Wash.—The Whitworth College Board of Trustees is organizing a company to construct an electric railway to connect with the electric railways in Spokane.

Sacramento, Calif.—The California Terminal Ry. is making arrangements to construct an interurban railway from San Rafael to Sacramento. C. W. Conlisk, San Francisco, is interested.

Snohomish, Wash.—The Council has granted a 50-year franchise to the Everett Ry., Light & Water Co. to extend its line from a connection with the Northern Pacific R.R. to Union Ave. and First St., Snohomish. D. C. Barnes, Everett, is Mgr.

Fresno, Calif.—The Council has granted the Fresno Traction Co. permission to double track its lines over certain streets. Frank W. Webster, Fresno, is Gen. Mgr.

Los Angeles, Calif.—The City Council has been advised by the Board of Public Utilities to grant a franchise to Louis Ginger for the construction of an incline railway in Griffith Park, Los Angeles.

The City Council has been recommended by the Public Utilities Committee to grant a franchise for the extension of the East First St. line in the Malibar improvement district to the East city limits of Los Angeles.

Brantford, Ont.—The Brantford St. Ry. Co. plans to extend its lines and to construct a loop in Brantford. The company has applied to the Council for a franchise for this extension. E. B. Stockdale, 45 King St., West Toronto, is Gen. Mgr.

LIGHT, HEAT AND POWER

★**Buffalo, N. Y.**—(Official)—Bids will be received until noon, Nov. 9, by Dr. Thomas E. Finegan, Asst. Comr. of Elementary Education, Educational Bldg., Albany, N. Y., for electric fixtures at the Buffalo State Normal School. Lewis F. Pilcher, Capitol, Albany, is State Arch.

New York, N. Y.—(Borough of Brooklyn)—(Official)—Bids will be received by C. B. J. Snyder, Supt., School Bldgs., Park Ave. and 59th St., Borough of Manhattan, until 3 p.m., Nov. 9, for installing electric equipment in Public School No. 178 on Dean St.

Weedsport, N. Y.—At a recent election, the citizens voted in favor of issuing $18,000 in bonds, to be used for the construction of a municipal electric light plant.

Baltimore, Md.—(Official)—See item under "Water Supply and Irrigation."

Frostburg, Md.—It is reported that the Hagerstown & Frederick Electric Ry. Co., Hagerstown, Md., plans to enlarge its power plant at Frostburg for the purpose of supplying light and power to the towns of Western Port and Midland. M. A. Pooler is local Mgr.

Durham, N. C.—The Southern Power Co., Charlotte, N. C., has purchased a site of several acres between Durham and University station, on which to build an auxiliary power plant. It will have a capacity of 10,000 hp. and the estimated cost is $500,000. B. N. Duke, Durham, is Vice-Pres. of the company.

Homestead, Fla.—The Homestead Light, Heat, Ice & Power Co., recently organized, is preparing to equip an electric light plant and ice factory, at a cost of from $12,000 to $16,000. J. U. Free is Mgr.

Marianna, Fla.—See item under "Water Supply and Irrigation."

Chattanooga, Tenn.—The Chattanooga Gas Co. contemplates laying an 8-in. gas main, about 4½ miles long, along Hooker Rd., to connect the plants of the Chattanooga Gas Co. and the Chattanooga Gas & Coal Products Co. The estimated cost is $40,000.

Dresden, Tenn.—The Board of Aldermen has ordered a special election to be held Nov. 21 for the purpose of voting a bond issue of $27,000 to be used for the construction of a municipal electric light plant and waterworks system.

Louisville, Ky.—The Schoppenhorst Dry Cleaning & Dying Co. plans to build a new power plant soon, for which a boiler, engine and dynamo will be required.

Hamden, Ohio—The Hocking Valley Ry. Co. has given notice that it will no longer furnish energy to the village after Jan. 1, 1915, and a plan has been started to organize a company, to be known as the Hamden Light & Garage Co., to furnish electricity to the village. The capital stock will be from $10,000 to $15,000.

Huntington, Ind.—(Official)—Bids will be received until Nov. 10, by the Board of Public Works for steam, exhaust and power plant piping in the municipal electric-light and water plant. H. I. Young is City Clk. Charles Brossman, Merchant's Bank Bldg., Indianapolis, Ind., is Consult. Engr.

Battle Creek, Mich.—The Kellogg Toasted Corn Flakes Co. is having plans prepared by M. J. Morehouse, 343 South Dearborn St., Chicago, Ill., for a power plant for its factories. The plant will consist of several reinforced-concrete buildings, and will develop 7000 hp. The estimated cost is $250,000.

Edwardsville, Ill.—Bids will be received, until Nov. 6, by Harry Mackinaw, Clk. of Madison County, for installing two electric passenger elevators and mail chute equipment in the Madison County court house. Robert G. Kirsch, Magnolia Ave. and Thurman St., St. Louis, Mo., is Arch.

Nokomis, Ill.—At a recent special election, the citizens voted in favor of issuing $25,000 in bonds, the proceeds of

which will be used for the construction of a municipal electric light plant.

Rankin, Ill.—The Village Board has granted a franchise to Charles Crump, Marine, Ill., for the installation and operation of an electric light plant for Rankin.

Beloit, Wis.—It is reported that the Fairbanks-Morse Mfg. Co. will remodel its power house and install new boilers in the early spring.

Union Grove, Wis.—The first unit of the State Home for Feebleminded and Epileptics at Union Grove will include the power plant required for the entire group of buildings, estimated to cost $1,000,000. The first unit will cost about $250,000, and work will start about Dec. 1. Vaughn, Myer & Sweet, Majestic Bldg., Milwaukee, are Consult. Engrs. M. J. Tappin, Madison, Wis., is Secy., State Bd. of Control.

Pocahontas, Iowa—It is reported that the Electric Light Commissioners will shortly begin the construction of a substation and three-quarters of a mile of transmission line to connect the municipal electric light plant with the line of the Northern Iowa Power Co.; or the Commissioners will purchase a 100-hp. oil engine and generators, transformers, switches, etc. O. B. Cade is Mgr. of the municipal plant.

Alpha, Minn.—The Town Council has granted a franchise to L. T. Sterling to build and operate an electric light plant in Alpha. It is reported that construction work will be begun at once.

Aurora, Minn.—The City Council has decided to build a municipal electric light plant to cost about $27,000.

Oakes, N. D.—Press reports state that the Oakes Light & Power Co. is considering the extension of its power and lighting system.

Cabool, Mo.—It is reported that the Bauch Mill & Elevator Co. is considering the establishment of an electric light plant and ice factory to be operated in connection with its flour mill. A. R. Beckett is interested.

Blanchard, Wash.—The Stone & Webster Engineering Corporation, Boston, Mass., will organize a subsidiary company to supply electricity to Blanchard and Edison, Wash., and the surrounding farming country. The substation will be located at Edison. W. E. Herring, Puget Sound Traction, Light & Power Co., Seattle, Wash., is interested.

Baker, Ore.—The City Commissioners have ordered estimates prepared of the probable cost of a municipal light and waterworks system to supply the dwellings and business houses of the town.

Bakersfield, Calif.—The County Highway Commission of Kern County has received bids for constructing 9.5 miles of transmission line in the county from: The Power Equipment Co., Rialto Bldg., San Francisco, at $11,000, and from John R. Cahill at $16,000.

Pittsburg, Calif.—The Contra Costa Gas Co. will shortly begin the construction of a gas generating plant at Pittsburg, and will lay pipe lines to Antioch, Concord and Martinez. S. W. Coleman is Pres. of the company.

✚Redwood City, Calif.—The Pacific Gas & Electric Co. has awarded the contract for the foundation of its new gasholder at Redwood City to the DUNCAN-HARRISON CO., at $10,960. Noted Sept. 24.

Bedford, Que.—The Bedford Mfg. Co. is having plans prepared for the construction and equipment of a power plant on the Pike River, to supply energy to its factories.

Fort William, Ont.—The Consolidated Elevator Co. will build a new office and transformer station at an estimated cost of $25,000. The building will be of brick, one story. Electrical equipment will be required.

BRIDGES

✚Sunderland, Mass.—The Board of Selectmen has awarded the contract for the construction of concrete abutments for a town bridge to the CASPER RANGER CONSTRUCTION CO., Holyoke, Mass.

New Britain, Conn.—The Board of Public Works has been petitioned to make an appropriation for the construction of a bridge at Rhodes St. Alfred L. Thompson is City Clk.

✚Audubon, N. J.—The Pennsylvania R.R. has awarded the contract for repairing five bridges over the Cape May cutoff in this borough and Haddon Township to the Le CATO CONSTRUCTION CO., Audubon.

✚New Brunswick, N. J.—(Official)—The Board of Chosen Freeholders of Middlesex County has awarded the contract for the construction of a reinforced concrete bridge at Bryant St., Borough of Roosevelt, to HERMAN BROS., Roosevelt. Noted Oct. 15.

Trenton, N. J.—The Board of Chosen Freeholders of Mercer County has authorized the construction of a new bridge over Pond Run. Theodore Tobish, County Engr., will have charge of the work.

Woodbury, N. J.—The Board of Chosen Freeholders of Gloucester County has appointed a special committee to investigate conditions for building a new bridge over Woodbury Creek on the Crown Point Road.

Duquesne, Penn.—Press reports state that the Carnegie Steel Co., Pittsburgh, plans to build a steel viaduct over the railway tracks near the South Duquesne station, for the use of pedestrians.

Erie, Penn.—It is reported that the State Highway Department and the Commissioners of Erie County will spend about $250,000 for the construction of reinforced concrete arches and bridges to eliminate grade crossings along the Lake Shore & Michigan Southern Ry. in Erie County. Plans are almost completed for the work. E. M. Bigelow, Harrisburg, is State Highway Comr.

✚Shamokin, Penn.—The Commissioners of Northumberland County, Sunbury, have awarded the contract for the construction of a bridge over Shamokin Creek at Walnut St., Shamokin, to PETER BARR, Shamokin, at $7587.

✚Atlanta, Ga.—Press reports state that a contract for the construction of a viaduct connecting the Broad St. Viaduct and the Forsyth St. Viaduct, to be built along the north side of the railway tracks, has been awarded to the GRIFFIN CONSTRUCTION CO. R. M. Clayton is City Engr.

✚Danielsville, Ga.—The Commissioners of Elbert and Madison Counties have awarded the contract for the construction of a steel bridge over the Broad River at Moore's Shoals near Carlton to the EAST ST. LOUIS BRIDGE CO., East St. Louis, Ill., at $10,195. Noted Oct. 1.

St. Augustine, Fla.—Bids will be received until Nov. 16 by the Commissioners of St. John County for the construction of a concrete bridge. The J. B. McCrary Co., Atlanta, Ga., is Engr.-in-Charge. W. Wallace Snow, St. Augustine, is Clk. of Comrs.

★Crawley, La.—(Official)—Bids will be received until noon, Nov. 28, by the Police Jury of Acadia Parish, for the construction of two steel bridges with concrete abutments, and necessary timber and earth approaches. J. K. Toler is Clk. of the Police Jury.

★New Orleans, La.—The following bids were opened Oct. 26 by the city for the construction of a Strauss trunnion bascule bridge over the New Basin Canal at City Park Ave.: Sterling Engineering Co., $40,985; Penn Bridge Co., $34,800; Midland Bridge Co., $38,787; Missouri Bridge & Iron Co., $40,233. A. G. Ricks is Comr. of Pub. Finances. Noted Oct. 1.

✚Chattanooga, Tenn.—(Official)—The Tennessee River Bridge Committee has awarded the contract for the concrete substructure of the Market St. Bridge to the VANG CONSTRUCTION CO., Cumberland, Md., at $342,491. The contract for the Scherzer rolling bascule has been awarded to the TOLEDO BRIDGE & CRANE CO., Toledo, Ohio, at $119,096. Partial list of bidders noted Oct. 29.

Georgetown, Ky.—The Queen & Crescent Route contemplates building a viaduct at Georgetown over Clayton Ave. extended. C. Dougherty, Cincinnati, Ohio, is Ch. Engr.

✚Birmingham, Ohio—The Board of Commissioners of Erie County, Sandusky, has awarded the contract for placing a creosoted wood block floor on Bridge F-202, near Birmingham, to the STANDARD ENGINEERING CO., Toledo, at $4990. Noted Oct. 8.

Bloomington, Ill.—The Board of Commissioners of McLean County is considering the construction of a bridge over the North Fork of Salt Creek on the county line.

✚Madison, Wis.—(Official)—The State Highway Commission has awarded the contract for constructing a six-span plate girder bridge to the WORDEN ALLEN CO., Milwaukee, at $9500. M. W. Torkelson is State Bridge Engr.

✚New Ulm, Minn.—A contract for tiling, culverts and bridges on State Highway No. 54, Brown County, has been awarded to OTTO NEITGE at $11,577.

Armour, S. D.—Bids will be received, until Nov. 10, by C. F. Meyer, Audr. of Douglas County, for the construction of corrugated iron or steel culverts and for bridge work during 1915.

Bellefourche, S. D.—Bids will be received, until 2 p.m., Nov. 17, by F. E. Bennett, Audr. of Butte County, for the construction of wood and steel bridges in the county during the coming year.

Castlewood, S. D.—Bids will be received, until Nov. 18, by Guy Osborn, Audr. of Meade County, for county bridge construction during 1915.

Elk Point, S. D.—Bids will be received, until Dec. 24, by Edward Holden, Audr. of Union County, for bridge construction during 1915.

Volga, S. D.—Bids will be received, until Nov. 17, by F. H. Ripley, Audr. of Brookings County, for the construction of all county bridges during 1915.

Harrisburg, Tex.—The Commissioners Court of Harris County, Houston, has instructed the County Engineer to prepare two sets of plans for a bridge, one for a steel structure and the other of reinforced concrete, across Brays Bayou at Harrisburg on the Houston- La Porte Road. H. L. Washburn, Houston, is County Audr.

✚Watonga, Okla.—The Board of Commissioners of Blaine County has awarded the contract for the construction of two bridges over the North Canadian River to the BOARDMAN BRIDGE CO., Oklahoma City, at $4425.

✚Buckley, Wash.—The Commissioners of King and Pierce Counties have awarded the contract for furnishing the steel for the bridge over the White River at Buckley to C. W. RAYNOR, 804 Spalding Bldg., Portland, Ore., at $11,625. List of bidders noted Oct. 15. The bridge will be built by day labor.

✚Portland, Ore.—The City Commission has awarded the contract for repairs to the Grand Ave. Bridge over Sullivan's Gulch to JEFFREY & BUFTON, at $7990. Noted Aug. 27.

✚The Dalles, Ore.—The Board of Commissioners of Wasco County has awarded the contract for the construction of two reinforced-concrete bridges over Eight-Mile Creek, east of The Dalles, at Hewitt Place and Waterman Place, to ALBERT FREDERICK, The Dalles, at $12.90 per cu.yd. for concrete and $3.30 per 100 lb. for iron.

Westport, Ore.—The Columbia & Nehalem R.R. has had plans prepared for a trestle near Westport. It will be about 1950 ft. long.

Fairfax, Calif.—Bids will be received, until Nov. 10, by the Board of Supervisors of Marin County, San Rafael, for the construction of a reinforced-concrete bridge on the Bolinas Road, near Fairfax.

✚Fairfield, Calif.—(Official)—The Supervisors of Solano and Yolo Counties have awarded the contract for the construction of a bridge over Putah Creeek, on the State Highway, to the CLINTON FIREPROOFING CO., San Francisco, at $30,500. Noted Oct. 8.

✚San Jose, Calif.—(Official)—The Board of Supervisors of Santa Clara County has awarded the contract for the construction of a pony truss bridge over Uvas Creeek, on the Bodfish Mill Road, to W. L. GILLHAM & SON, San Jose, at $4157. Other bidders were: Security Construction Co., $4368; John Doyle, $4887; R. H. Jamison, $4915; Peterson & Grier, $4870. Noted Oct. 15.

Ottawa, Ont.—(Official)—We are advised that plans for the Pretoria Ave. Bridge are being revised, so no date for receiving bids has been set. Archibald Currie is City Engr. Noted Oct. 22.

WATER SUPPLY—IRRIGATION

Troy, N. H.—Dudley & Sawyer, Engrs., Manchester, have been retained by the city to prepare plans for the construction of a gravity water system.

Boston, Mass.—Bids will be received by the Public Works Department, until Nov. 10, for laying two miles of 16-in. high-service pipe in South Boston. L. K. Rourke is Comr.

Warren, Mass.—The town contemplates installing a water system. The question will be voted on at the annual town meeting in March.

New York, N. Y.—The State Conservation Commission has granted permission to New York to impound the water from Schoharie Creek. The city will build a reservoir at Plattsville capable of supplying 200,000,000 gal. a day.

Watervliet, N. Y.—The city will install a filtration plant estimated to cost $500,000. Frank Keis is City Engr. Noted May 28.

Burlington, N. J.—The Common Council plans to make improvements to the water works. New pumping machinery will be installed and the plant will be converted from steam to electricity.

Hopewell, N. J.—The Borough Council has authorized the issuance of $20,000 in bonds, the proceeds of which to be used for the improvement of the water system.

Trenton, N. J.—The Water Department is considering the enlargement of its local reservoir so as to increase the capacity by 20,000,000 gal. Alvin Bugbee is Supt.

★**Woodstown, N. J.**—(Official)—Bids will be received by the Water Committee of the Council until Nov. 16 for drilling one 8-in. well. J. H. Dickeson is Borough Clk. For details see advertisement under "Contracts To Be Let."

Bristol, Penn.—Plans are being prepared by W. H. Boardman, Engr., 420 Walnut St., Philadelphia, for the construction of a reservoir and a pumping plant for Bristol.

New Castle, Penn.—The Council contemplates issuing bonds for $33,000, the proceeds of which will be used for the construction of a water system.

✚**Philadelphia, Penn.**—Contracts have been awarded by the Department of Public Works for turbo-centrifugal pumps for Torresdale and Wentz Farm to SOUTHWARK FOUNDRY & MACHINE CO., at $7320 for item one and at $2280 for item two and to D'OLIER CENTRIFUGAL PUMP & MACHINE CO., at $16,200 for item three. Bids opened Oct. 6. Noted Oct. 1.

★**Baltimore, Md.**—(Official)—Bids will be received until 11 a.m., Nov. 18, by the Board of Awards for heating systems for the filtration plant and high service pumping station.

Benwood, W. Va.—The citizens contemplate issuing bonds, the proceeds of which to be used for the construction of a water system.

North View (Clarksburg post office), **W. Va.**—Bids will be received by the Recorder until Nov. 10, for the purchase of $21,000 in bonds, the proceeds of which to be used for the installation of a water system.

★**Mullins, S. C.**—(Official)—Bids were received, Oct. 29, for the construction of a water and sewer systems. The following are the low bidders: Pumping station, complete, Municipal Improvement Co., Augusta, Ga., $4567; centrifugal pump and motor, Isaac Hardeman, Jr., $1150; triplex pump and gasoline engine, J. R. Purser, $2699; laying pipe, Municipal Improvement Co., $4812; furnishing valves and hydrants, Columbian Iron Works, $1380; furnishing c.-i. pipe, Glamorgan Pipe & Foundry Co., $12,446; tower and tank, J. S. Schofield's Sons Co., $3867; sewer construction, Municipal Improvement Co., $35,021; furnishing terra cotta pipe, Georgia Vitrified Brick & Clay Co., $4144. Gilbert C. White is Engr. Noted Oct. 22.

Marianna, Fla.—Bonds for $35,000 for the construction of a water system and electric-light plant have been voted by the citizens. Paul Carter is Mayor.

✚**Camp Hill, Ala.**—The contract for constructing a water system has been awarded by the city to SULLIVAN, LONG & HAGERTY, Bessemer, at $15,361. Bids opened Oct. 15. Noted Oct. 15.

✚**Georgiana, Ala.**—The contract for constructing a water system has been awarded by the city to J. B. McCRARY CO., Atlanta, Ga., at $14,000. Noted Oct. 1.

Dresden, Tenn.—At an election to be held Nov. 21, the citizens will vote on the question of issuing bonds for $27,000, the proceeds of which to be used for the construction of a water system and electric-light plant.

Newport, Tenn.—Bonds for $5000 for the extension of the water system have been voted.

✚**Madisonville, Ky.**—The contract for constructing a reservoir and an earth dam has been awarded by the Board of Public Works to LUCIEN HANCOCK, at about $17,000.

✚**Archbold, Ohio**—Contracts for the installation of the water system have been awarded to H. D. HALLETT, Aurora, Ill., at $14,200.

★**Cleveland, Ohio**—(Official)—Bids will be received until noon, Dec. 2, by the Commissioner of Purchases and Supplies for installing a filter plant.

Medina, Ohio—Plans have been approved by the State Board of Health for the improvement of the water supply. The height of the reservoir will be raised, and a temporary disinfection plant will be installed.

Pataskala, Ohio—Plans are being prepared by H. L. Maddock, Trust Bldg., Newark, Ohio, for the construction of a water system. The estimated cost is $25,000.

West Salem, Ohio—Plans have been approved by the State Board of Health for the construction of a municipal water system.

Wyoming, Ohio—Bids will be received until noon, Nov. 15, by H. E. Bienfang, Secy. Village Trustees, for making improvements to the water system.

Earlville, Ill.—The citizens contemplate spending $14,000 for the improvement of the water system.

✚**Kansas, Ill.**—The contract for erecting a steel tower and tank has been awarded by the Board of Trustees to CHICAGO BRIDGE & IRON WORKS, Chicago. Bids opened Oct. 12. Noted Oct. 8.

Sparta, Ill.—The Sparta Water Supply Co., recently incorporated with $25,000 capital, will construct a complete water system. E. B. McGuire is interested.

Milwaukee, Wis.—Contracts for the construction of the Lake Shore intake tunnel will not be awarded until 1915. Noted Oct. 8.

Iowa Falls, Iowa—Bids will soon be received by E. L. Marriage, City Mgr., for 8500 ft. of 6- to 4-in. c.-i. water pipe. The estimated cost is $6000.

✚**Rockwell City, Iowa**—The contract for making extensions to the water system has been awarded by the city to BLACK HAWK CONSTRUCTION CO., Waterloo. Noted Aug. 27.

✚**Ely, Minn.**—Contracts for installing a 300,000-gal. steel tank and for a pumping engine have been awarded by the city to DES MOINES BRIDGE & IRON CO., Des Moines at $15,432 and to PLATT IRON WORKS CO., Dayton, Ohio, at $5880 respectively. Bids opened Oct. 5. Noted Oct. 1.

✚**Hibbing, Minn.**—The contract for laying two miles of water mains and constructing a reservoir has been awarded to BUTLER-COONS CONTRACTING CO., Hibbing. Noted Oct. 1.

Holton, Kan.—Plans have been prepared by Worley & Black, Kansas City, Mo., for the installation of a water system, estimated to cost $50,000. C. E. Mitchell is City Clk.

Medicine Bow, Wyo.—Bids will be received until Nov. 7, by the Town Council for the construction of a water system. C. C. Carlisle, First National Bank Bldg., Cheyenne, is Engr. Noted Sept. 10.

Powell, Wyo.—C. H. Green & Co., Spokane, Wash., is preparing plans for the construction of a gravity water system. W. A. Daming is Town Clk.

Joliet, Mont.—The Joliet Water Co. will make extensions to its water system. Pipes will be laid to the main channel of Rock Creek and a concrete reservoir will be built.

Harrison, Ark.—An election will be held Dec. 22 to vote on the question of issuing bonds for $90,000, the proceeds of which to be used for the purchase and enlargement of the water and sewer systems. Noted Jan. 15.

Texarkana, Ark.—The city contemplates installing a municipal water system.

Tillar, Ark.—A water system will be constructed in Water Improvement District No. 1.

Central Park (Houston post office), **Tex.**—The Council will soon call an election to vote on the question of issuing bonds, the proceeds of which will be used for the construction of a water system.

Cleburne, Tex.—Press reports state that the Gulf, Colorado & Santa Fé Ry. has appropriated $16,446 for the drilling of a deep well and equipping with pumping machinery. F. Merritt, Galveston, is Ch. Engr.

✚**Electra, Tex.**—(Official)—The contract for erecting a 60,000-gal. water tank and tower has been awarded by the city to CHICAGO BRIDGE & IRON CO., Chicago, Ill. Joseph F. Overbey is Engr. Noted Oct. 1.

Magnolia Park (Houston post office), **Tex.**—An election will be held Nov. 28, to vote on the question of issuing bonds for $150,000, the proceeds of which will be used for the construction of a water system. Noted Aug. 27.

✚**McKinney, Tex.**—The contract for constructing a water works and electric-light plant has been awarded by the city to J. E. COOPER, McKinney at $4900.

Morris, Okla.—Bids will be received, until 6 p.m., Nov. 16, by the Board of Trustees, for constructing a water system. The estimated cost is $42,000. The contractor will be paid in bonds. The Benham Engineering Co., Oklahoma City, is Engr. Noted Apr. 30.

Oklahoma City, Okla.—The City Commission will call an election to vote on the question of issuing $250,000 in bonds, the proceeds to be used for the construction of water reservoirs. Guy V. McClure is City Engr.

Boise, Idaho—Plans for the extension of the water system to cover the entire South Side section are being prepared for the Boise Artesian Hot & Cold Water Co., Boise.

Camas, Wash.—The Camas Water Co. has been incorporated by O. L. Price, Camas; Milton Hegstad, Portland, Ore., and H. L. Sound, Vancouver, B. C., with $50,000 capital. The company will construct a water system to supply Camas.

Morton, Wash.—The Council contemplates spending $5000 for the installation of a municipal water system.

Baker, Ore.—See item under Light, Heat and Power.

Arcadia, Calif.—M. Ehle, City Engr., is preparing plans for construction of a water system to cost $131,250.

Glendora, Calif.—Plans are being prepared by Floyd G. Dessery, City Engr., Central Bldg., Los Angeles, for the construction of a water system, estimated to cost $60,000. Noted Oct. 1.

San Diego, Calif.—Bids will be received, until 10:30 a.m., Nov. 9, by O. M. Schmidt, Supt. Dept. of Finance, for material for the installation of a filtration plant on the lower Otay dam. Noted Oct. 22.

✚**San Diego, Calif.**—The contract for steel riveted pipe for the Bonita pipe line has been awarded by the Council to WESTERN PIPE & STEEL CO., at $101,072.

Susanville, Calif.—An election will soon be held to vote on the question of issuing bonds for the construction of a municipal water system.

Bartonville, Ont.—See item under "Sewers."

Regina, Sask.—The Council has authorized the preparation of plans for the construction of a 5,000,000-gal. reservoir.

SEWERS

Boston, Mass.—Bids will be received by the Public Works Department until Nov. 6 for constructing sewers and drains in Powellton St. and Columbia Rd. L. K. Rourke is Comr.

Bids will be received until Nov. 10, by the Public Works Department for constructing sewers and drains in Westmoreland St. and Wellington Way, Dorchester District, and for constructing sewers in East Boston. L. K. Rourke is Comr.

Bronxville, N. Y.—A sewer will be constructed in Kraft Ave. Plans have been approved by the State Conservation Commission for this work.

New York, N. Y.—(Borough of Brooklyn)—(Official)—Bids will be received by L. H. Pounds, Borough Pres., until 11 a.m., Nov. 6, for constructing sewers in various streets.

✚(Borough of Brooklyn)—(Official)—Bids were received Oct. 27, by L. H. Pounds, Pres. of the Borough and contracts have been awarded as follows: To MURPHY BROS., for constructing sewers in 17th St., at $2844, in 13th St., at $2180, in 11th Ave., at $1017, in East 13th St., at $916, in Williams Ave., at $707, and for house connections at $633; and to PAINO BROS., for a sewer in 71st St. at $1881. Noted Oct. 22.

(Borough of Richmond)—(Official)—Bids will be received by Charles J. McCormack, Borough Pres., until noon, Nov. 10 for constructing temporary and permanent combined sewers in various streets and for grading and repairing the walks on Charles Ave. between Lafayette and Nicholas Ave.

New York, N. Y.—The city will rebuild the sewers in Wall and Liberty St., according to press reports. The estimated cost is $18,000.

Ogdensburg, N. Y.—The State Conservation Commission has approved plans for the construction of a trunk sewer in Monroe Ave. George A. Tate is City Engr.

Syracuse, N. Y.—See item under "Miscellaneous."

Wappingers Falls, N. Y.—Plans have been approved by the State Conservation Commission for the construction of sewer and water systems at Wappingers Falls.

Westfield, N. Y.—Plans have been approved by the State Conservation Commission for the extension of sewers in Jackson, Davis and Billsborow St.

Camden, N. J.—Bids will be received by the City Council until Nov. 20 for constructing sewers in the Rosedale district.

Jersey City, N. J.—(Official)—Bids were received Oct. 29, for constructing a 48-in. c.-i. pipe sewer in Secaucus Rd. and Tonnelle Ave. as follows: Clinton Contracting Co., 97% of standard; Edward P. O'Neill, 97% of standard; James McAvoy, 124% of standard; Robert Maddington & Sons, 112% of standard; and Charles T. Kavanaugh, Inc., 99½% of standard. Noted Oct. 22.

Madison, N. J.—(Official)—Bids will be received until 8 p.m., Nov. 6 by the Sewer Committee for constructing a sewer in Howell St. from Brittin to Locust St. Robert H. Holmes is Chn.

Cairnbrook, Penn.—(Official)—A sewer system and sewage treatment plant will be constructed at Cairnbrook. Plans have been approved by the State Department of Health.

Downingtown, Penn.—(Official)—Plans are being prepared by Herbert W. Hutton, Engr., Equitable Bldg., Wilmington, Del., for the installation of a sewage disposal plant and sewer system. Noted Oct. 22.

Gallitzin, Penn.—The Borough Council has been advised by the State Health Commission to construct a sewage disposal plant to be in operation by July, 1917.

Kulpmont, Penn.—(Official)—The village will install a sewer system. Plans have been approved by the State Department of Health.

Philadelphia, Penn.—(Official)—The State Department of Health has approved plans for the construction of lateral sewers in Philadelphia.

Reading, Penn.—(Official)—Plans for the construction of a sewage treatment plant in Lower Heidleburg Township have been approved by the State Department of Health.

Sharon Hill, Penn.—An election will soon be held to vote on the question of issuing bonds for $10,000 for the extension of the sewer system.

Stroudsburg, Penn.—(Official)—Barrett Township will construct an addition to its sewage treatment plant. Plans for this work have been approved by the State Department of Health.

Upper Darby, Penn.—The city contemplates spending $150,000 for the construction of sewers and making other improvements.

★**Mullins, N. C.**—See item under "Water Supply and Irrigation."

Marianna, Fla.—The citizens voted against the question of issuing bonds for the construction of sewers.

✚**Miami, Fla.**—The contract for constructing sanitary sewers has been awarded to J. J. QUINN & CO., Bedford, Ind., at $122,077. Bids opened Oct. 15. Noted Sept. 24.

✚✚**Tampa, Fla.**—(Official)—The contract for constructing sewers in Section 8, Hyde Park, has been awarded by the Board of Commissioners to BENJAMIN THOMPSON, Tampa, at $90,984. Other bids were Bryan & Co., Jacksonville, $98,180; Michler & Flynn, Nashville, Tenn., $96,612; and J. C. McNeill, Tamps, $98,700. D. B. McKay is Mayor. Noted Oct. 22.

✚**Camp Hill, Ala.**—The contract for constructing a complete sewer system has been awarded to SULLIVAN, LONG & HAGERTY, Bessemer, Ala., at $7996. Bids opened Oct. 15. Noted Oct. 15.

★**Canton, Ohio**—(Official)—Bids will be received by Z. W. Kent, Dir. of Pub. Ser., until noon, Nov. 11, for constructing the main sewer to the new sewage disposal plant. For particulars, see advertisement under "Contracts to Be Let."

Chillicothe, Ohio—Bids will be received by the City Auditor, until Nov. 16, for the sale of $31,000 in bonds for constructing Honey Creek Sewer No. 4.

✚**Cincinnati, Ohio**—A contract for constructing sewers in Dewey, Gilsey and Sargent Ave. has been awarded to the KIRCHNER CONSTRUCTION CO., 221 West Ninth St., at $14,337.

East Youngstown, Ohio—(Official)—Bids will be received by G. R. Anderson, Village Clk., until noon, Nov. 13, for constructing a sewer in Wilson Ave.

Painesville, Ohio—Bids will be received by the Board of Public Service, until Nov. 15, for constructing a santiary sewer.

Atlanta, Ill.—Plans have been prepared by Melluish & Broyhill, Bloomington, Ill., Consult. Engrs., for constructing a sewer system. About two miles of pipe will be required.

✚**Peoria, Ill.**—(Official)—A contract for constructing one sanitary and one storm sewer has been awarded to GREEN & SONS CO., Ottawa, Ill., at $26,918. Other bids were: Bainewalt Construction Co., Peoria, Ill., $26,986; Yale & Reagan, Chicago, Ill., $26,989; E. R. Harding Co., Racine, Wis., $27,673; A. C. Comstock & Co., Cedar Rapids, Iowa, $27,987; A. D. Thompson Co., Peoria, Ill., $28,157. Noted Oct. 22.

✚**Kewaunee, Wis.**—The contract for constructing a sewer in Harrison St. has been awarded to MULHOLLAND & SON.

Madison, Wis.—Bids will be received by O. S. Norsman, City Clk., until Nov. 13, for constructing a storm sewer in Bassett St. E. E. Parker is City Engr.

✚**Racine, Wis.**—A contract for constructing two large trunk sewers has been awarded to E. R. HARDING CO.

✚**Pine City, Minn.**—(Official)—A contract for constructing a sanitary sewer system has been awarded to ROGERS & McLEAN, Duluth, Minn., at $5788. Noted Oct. 22.

✚**Glendive, Mont.**—The contract for installing sewers in district between Minnesota and Fifth St. South, and South 23d and 27th St. to FRANK SAVARSEY, at $8886.

✚**Lewistown, Mont.**—A contract for constructing sewers in Districts Nos. 36, 37, 38 and 39 has been awarded to L. W. SCHRUTH, at $12,843.

✚**Aurora, Mo.**—(Official)—A contract for constructing a sewage and purification system has been awarded to McCOY & TAYLOR, Avilon Hotel, Kansas City, Mo., at $19,907. Other bids were: W. McElroy, Fort Scott, $23,585; Horton Concrete Construction Co., Kansas City, $22,001; Launder & Gessner, Kansas City, $25,629; Clements & Lourey, Coffeyville, $21,265; Middleton & Ludlow, Kansas City, $23,147; O'Neil Construction Co., Leavenworth, $22,984; Everett & Burt, Hutchinson, Kan., $27,234; Inter-Mountain Bridge & Construction Co., Tecumseh, Neb., $27, 669. Noted Oct. 15.

Harrison, Ark.—An election will be held, Dec. 22, to vote on the question of issuing $90,000 in bonds, the proceeds of which will be used for constructing a sewer system, purchasing and enlarging water-works.

✚**Pocatello, Idaho**—The City Trustees have awarded a contract for sewer work to R. M. BARSDEN, Butte, Mont., at $84,297.

Montavilla, Ore.—Bids will soon be received for the construction of a new sewer known as the Willow and East 82d St. branch. The estimated cost is $183,000.

Chino, Calif.—Plans for the proposed sewer system have beeen prepared by Olmstead & Gillelen, Hollingsworth Bldg., Los Angeles. The estimated cost is $50,000.

✚**Los Angeles, Calif.**—According to press reports, the contract for constructing a sewer in Vermont Ave., between Florence Ave. and 65th St., has beeen awarded to MLAGENOVICH & GILLESPIE, at $20,000.

✚**Sacramento, Calif.**—(Official)—The contract for constructing trunk line sewer, Sects. A and B, Unit No. 1, has been awarded to the ROSS CONSTRUCTION CO., at $52,8777.

Sacramento, Calif.—Bids will soon be received by the City Commission for constructing the second unit of the suburban sewer along Riverside Rd. to Maple Park.

Ventura, Calif.—The Board of Trustees has instructed the City Engineer to prepare plans for the construction of a storm sewer in Oak St. The cost is estimated at $24,000.

Visalia, Calif.—An election will soon be held to vote on the question of issuing $108,000 in bonds for extending the sewer system.

Bartonville, Ont.—Plans are being prepared by A. F. McCallum, City Engr. of Hamilton, Ont., for a $20,000 sewage system and a $50,000 waterworks system.

Cobalt, Ont.—The Town Council contemplates constructing one mile of 15-in. sewer. Code & Code, Cobalt, Ont., is the Engr.

✚**Hamilton, Ont.**—A contract for sewer pipe has beeen awarded to McALLISTER & CO., Toronto, at approximately $16,000.

✚**Toronto, Ont.**—The contract for constructing the sewer in Argyle St. has been awarded to the GAWNE CONTRACTING CO., at $36,800.

Toronto, Ont.—(Official)—Bids will be received by H C. Hocken, Chmn., Bd. of Control, until noon, Nov. 10, for constructing a number of sewers in various streets.

Vancouver, B. C.—Bids will soon be received by the City Council for constructing sewers on six streets. The estimated cost is $25,000. F. L. Fellows is Engr. in-Charge.

GARBAGE

Miami, Fla.—(Official)—Bids will be received, until Nov. 19, by the city for machinery for a garbage disposal plant; two tons per hour capacity. John R. Baylis, 704 Farley Bldg., Birmingham, Ala., is the Engr.

Norwood, Ohio—The Public Service Commission has submitted a report recommending and directing the purchase of a garbage disposal plant. The Director of Public Service has been authorized to call for bids. The estimated cost is $30,000.

Steubenville, Ohio—Bids will be received by Henry H. Henderson, Dir., Pub. Serv., until Nov. 16, for re-building the incinerating furnaces of the city garbage plant.

+San Francisco, Calif.—The Panama-Pacific International Exposition Co. has awarded a contract to C. D. CROUCH, at $26,500, for the construction of a garbage disposal plant.

STREETS AND ROADS

Boston, Mass.—Bids will be received until Nov. 6, for roadways on Bourneside and Ronald St. and in Paisley Park, Dorchester District. L. K. Rourke is Comr.

+Boston, Mass.—The contract for excavating and grading in Seaver St., Roxbury District, has been awarded to JOHN KELLY CO., $10,500. Other bids were: James Doherty, $10,618; Hugh Nawn Contracting Co., $11,310; J. C. Coleman & Sons Co., $11,844; W. J. Barry, $12,540; Coleman Bros., $12,690; John F. Lynch, $12,987; D. M. Biggs & Co., $14,290; John McCourt Co., $15,355; M. De Sisto ,$15,955.

+The contract for a bituminous macadam roadway in Jewett and Phillbrick St., West Roxbury District, has been awarded to MARTINO DE MATTEO, at $4459. Other bids were: John Kelly Co., $4664; James Doherty, $4709; West Roxbury Trap Rock Co., $4752; W. J. Rafferty Co., $5121; Hugh J. McGuire, $5222; John F. Lynch, $5557.

Hartford, Conn.—Contracts for state road work, bids for which were received by the State Highway Commissioner, Oct. 21, have been awarded as follows:

Preston Township—A section of native stone macadam construction on the Norwich-Westerly Turnpike, to AMOS D. BRIDGE'S SONS, INC., Hazardville, Conn., at $8000.

Sterling Township—About 5480 lin.ft. native stone macadam construction on the Plainfield Road, to AMOS D. BRIDGE'S SONS, INC., Hazardville, Conn., at $7795.

Morris Township—A section of gravel construction on the East Morris Road, to JOHN DE MICHIEL & BRO., Torrington, Conn., at $8879.

Danbury Township—A section of gravel construction on Lake Ave., to the FRAMINGHAM CONSTRUCTION CO., South Framingham, Mass., at $20,850.

Coventry Township—A section of native stone macadam construction on the Willimantic Road, to AMOS D. BRIDGE'S SONS, INC., Hazardville, Conn., at $6649. Noted Sept. 10 and 24.

Albany, N. Y.—Bids were received by the State Highway Commission, 55 Lancaster St., Oct. 30, for the construction of public highways by state aid, as follows:

Road No. 5217-A, Chautauqua County, 6.82 miles—Thurman W. Dix, Burlington, Vt., $106,804; Ontario Roads Co., Manchester, N. Y., $103,178; K. A. Culkin & Co., Oswego, N. Y., $105,497; Lawrence Schultze, Fredonia, N. Y., $100,198; Harry B. Harrison, East Rochester, N. Y., $105,216.

Road No. 5245-A, Chautauqua County, 5.96 miles—Ontario Roads Co., Manchester, N. Y., $92,887; Edward T. Beck & Co., Warren, Penn., $92,103; Harry B. Harrison, East Rochester, N. Y., $95,916; J. A. Culkin & Co., Oswego, N. Y., $93,619.

Road No. 5263-A, Chautauqua County, 5.51 miles—Harry B. Harrison, East Rochester, N. Y., $85,167; Thomas Mahoney, Jamestown, N. Y., $95,500; Edward T. Beck & Co., Warren, Penn., $81,866; Ontario Roads Co., Inc., Manchester, N. Y., $82,645.

Road No. 5520, Clinton County, 11.85 miles—Beede Bros., Keene Valley, N. Y., $114,154; Gruner & Hallenbeck, Harriman, N. Y., $124,431; Amos D. Bridge's Sons, Inc., Hazardville, Conn., $112,127; Samuel Beskin, Beacon, N. Y., $108,629; Spellman-Oliver Co., Chateaugay, N. Y., $108,387; John H. Gordon, Albany, N. Y., $111,287, and 13 others.

Road No. 1212, Erie County, 5.40 miles—Flower City Contracting Co., Rochester, N. Y., $135,566; Thomas F. Shaughnessy, Albany, N. Y., $132,710; Henry P. Burgard Co., Buffalo, N. Y., $133,337; B. D. Dugan Son, Olean, N. Y., $135,759; Alfred L. Willy, Binghamton, N. Y., $135,511; Brooks & Julian, Rochester, N. Y., $135,085, and 12 others.

Road No. 1213, Erie County, 6.22 miles—Rich Construction Co., Holley, N. Y., $93,988; Cheektowaga Construction Corporation, Buffalo, N. Y., $89,853; Frank L. Cohen, Buffalo, N. Y., $100,618; Bonney & Hamilton, Rochester, N. Y., $98,284; Cold Spring Construction Co., Buffalo, $100,834; Bridgeport Construction Co., Poughkeepsie, N. Y., $101,117; Harry B. Harrison, East Rochester, N. Y., $99,441, and 10 others.

Road No. 1214, Erie County, 5.90 miles—Rich Construction Co., Holley, N. Y., $91,790; Serviss & Mackey, Youngstown, N. Y., $93,674; Cold Spring Construction Co., Buffalo, N. Y., $92,417; Thomas E. Shaughnessy, Albany, N. Y., $91,464; Frank L. Cohen, Buffalo, N. Y., $92,792, and 10 others.

Road No. 1064, Erie County, 4.03 miles—Frank V. Brotsch Co., Rochester, N. Y., $54,184; Wood & Tompkins, Hilton, N. Y., $56,478; Cold Spring Construction Co., Buffalo, N. Y., $53,080; Serviss & Mackey, Youngstown, N. Y., $56,033; John W. Landel, Tonawanda, N. Y., $55,293; Austin W. Summers, Buffalo, N. Y., $62,733; Henry P. Burgard Co., Buffalo, N. Y., $59,931; P. H. Murray, Rochester, N. Y., $57,040.

Road No. 1067, Erie County, 4.08 miles—Louis H. Gipp, Buffalo, N. Y., $96,680; Rich Construction Co., Holley, N. Y., $97,643; Constantine Construction Co., Buffalo, N. Y., $97,563; Tyre & Willey, Binghamton, N. Y., $98,567; Frank L. Cohen, Buffalo, N. Y., $100,217; Austin W. Summers, Buffalo, N. Y., $100,601; Lake Shore Construction & Supply Co., Dunkirk, N. Y., $99,231, and seven others.

Road No. 1066, Erie County, 6.58 miles—Samuel Beskin, Beacon, N. Y., $150,879; Joseph F. Stabell Co., Buffalo, N. Y., $151,338; Frank L. Cohen, Buffalo, N. Y., $145,633; Rich Construction Co., Inc., Holley, N. Y., $145,039; Tyne & Willey, Binghamton, N. Y., $148,352; Flower City Contracting Co., Rochester, N. Y., $149,972, and six others.

Road No. 1217, Madison County, 3.19 miles—Dale Engineering Co., Utica, N. Y., $26,183; Michael H. Ripton, Rochester, N. Y., $27,543; Albert H. Brown, Hempstead, N. Y., $25,685; Paddleford & King, Sherburne, N. Y., $25,094; St. Lawrence Construction Co., $27,048; State Highway Construction Co., Beacon, N. Y., $26,842, and four others.

Road No. 1216, Madison County, 1.87 miles—Phelan & Sullivan, Utica, N. Y., $17,865; W. J. Kennedy, Utica, N. Y., $18,140; Paddleford & King, Sherburne, N. Y., $15,613; Conroy & Nixdorf, Oneida, N. Y., $18,321; Flood & Van Wirt Co., Hudson Falls, N. Y., $18,175; S. P. Hull, Cortland, N. Y., $16,951, and six others.

Road No. 5522, Monroe County, 3.97 miles—P. H. Murray, Rochester, N. Y., $40,243; Monroe Roads Co., Pittsford, N. Y., $40,445; E. H. Brown, Hempstead, N. Y., $40,620; Greenfield Construction Co., Hornell, N. Y., $39,937; Brooks & Julian, Rochester, N. Y., $39,908; C. O. McComb, Syracuse, N. Y., $39,699, and nine others.

Road No. 5521, Oneida County, 5.70 miles—J. G. Hayes, Hornell, N. Y., $58,221; Frank L. Cohen, Buffalo, N. Y., $59,085; James Anderson, Albany, N. Y., $59,614; Newport Construction Co., Herkimer, N. Y., $58,977; John P. Dugan Co., Amsterdam, N. Y., $59,932; Gruner & Hallenbeck, Harriman, N. Y., $58,295; Paddleford & King, Sherburne, N. Y., $59,022, and seven others.

Road No. 5278-A, Rensselaer County, 3.66 miles—J. P. Scanlon, Albany, N. Y., $45,233; Gifford Construction Co., Jamaica, N. Y., $42,402; Langan Construction Corporation, Albany, N. Y., $44,849; Murray Construction Corporation, Troy, N. Y., $43,384; Thomas F. Shaughnessy, Albany, N. Y., $44,640; Bellotte & Marchese, Troy, N. Y., $44,818, and six others.

Road No. 1215, Schoharie County, 4.16 miles—George H. McAvoy, Creek Locks, N. Y., $30,666; L. B. Harrison, New York, $33,428; Frank E. Gore, New York, $33,491; S. V. Van Wagonen, Rondout, N. Y., $32,160; State Highway Construction Co., Beacon, N. Y., $33,472; St. Lawrence Construction Co., Albany, N. Y., $31,066; Bridgeport Construction Co., Poughkeepsie, N. Y., $31,524; James Garafano & Sons, Inc., Mt. Vernon, N. Y., $31,847; Lane Construction Corporation, Meriden, Conn., $33,539, and two others.

Road No. 5286-A, Schoharie County, 0.62 mile—Frank E. Gore, New York, $11,092; Were & Gaspary, N. Y., $9972.

Road No. 986, Sullivan County, 10.97 miles—Ruddy Saunders Construction Co., Troy, N. Y., $119,894; M. R. Aldrich, Poughkeepsie, N. Y., $107,986; Bridgeport Construction Co., Poughkeepsie, N. Y., $101,314; Stanley Construction C., Buffalo, N. Y., $113,328; Frank P. Gore, New York, $113,424; Hembdt & Washington, Monticello, N. Y., $112,008; C. W. Tyrone, Boyntonville, N. Y., $109,824; Schunnemunk Construction Co., Highland Mills, N. Y., $116,256; A. Vito Construction Corporation, Thompson, Conn., $121,847; L. B. Harrison, New York City, $122,847; Hovey Benedict, Williamsport, Penn., $124,180; A. Brazos & Son, Inc., Middletown, Conn., $112,661; Samuel Beskin, Beacon, N. Y., $114,386.

Road No. 5506, Broome County, 1.27 miles—Tyne & Willey, Binghamton, N. Y., $62,038; Frank E. Gore, New York, $63,502; Greenfield Construction Co., Hornell, N. Y., $60,039; L. B. Harrison, New York, $66,294; Stanley Construction Co., Buffalo, N. Y., $60,799; John Johnson Construction Co., Buffalo, N. Y., $62,507; McGreevey, McGuigan & Baum, Elmira, N. Y., $61,476; Paddleford & King, Sherburne, N. Y., $58,528; Arthur D. Osborne, Binghamton, N. Y., $61,171; C. D. Dean, Albany, N. Y., $61,029; John Kelly, Elmira, N. Y., $61,094.

Road No. 1145, Onondaga County, 0.76 mile—C. T. Hookway Construction Co., Syracuse, N. Y., $26,984; Samuel Bonn, Syracuse, N. Y., $26,733.

Road No. 5524, Herkimer County, 5.27 miles—S. V. Ban Wagonen, Rondout, N. Y., $50,223; Stanley Construction Co., Buffalo, N. Y., $47,533; James Garafano & Son, Mt. Vernon, N. Y., $48,434; Newport Construction Co., Herkimer, N. Y., $49,663; James Anderson, Albany, N. Y., $47,577; Paddleford & King, Sherburne, N. Y., $49,196; Ruddy Saunders Construction Co., Troy, N. Y., $49,910, and 12 others.

+New York, N. Y.—(Borough of Brooklyn)—(Official)—Contracts have been awarded for improving East Seventh St. from Ditmas to 18th Ave., Hinsdale Ave. from Riverdale to New Lots Ave. ,to B. KLEPPER, at $2127 and $2625, respectively; East Ninth St. from Ave. N to O, East 22d St. from Ditmas to Newkirk, East 23d St. from Ave. M to N, and East 24th St. from Ave. M to N, to the BROOKLYN ALCATRAZ ASPHALT CO., at $4754, $3407, $4190 and $4190, respectively; East 22d St. from Ditmas to Newkirk Ave., to G. M. MENDATTO, at $2724. Noted Oct. 22.

(Borough of Bronx)—(Official)—Bids will be received by Douglas Mathewson, Borough Pres., until 10:30 a.m., Nov. 10, for paving with bituminous concrete certain streets in the borough.

(Borough of Manhattan)—(Official)—Bids will be received by Marcus M. Marks, Borough Pres., until 2 p.m., Nov. 11, for repaving various streets in the borough. Sheet asphalt, wood block and granite block pavement will be used.

(Borough of Richmond)—(Official)—See item under "Sewers."

(Borough of Richmond)—(Official)—Bids will be received by Charles J. McCormack, Pres., Borough of Richmond, until noon, Nov. 10, for repaving with bituminous concrete Innis St. from John St. to Nicholas Ave.

Bids will also be received on that date for laying granite block pavement on Richmond Turnpike from Obra Ave. to Louis St., and for regrading Innis St. between Nicholas Ave. and John St., and resetting curbs and relaying cement sidewalks along the same.

(Borough of Brooklyn)—(Official)—Bids will be received by L. H. Pounds, Borough Pres., until 11 a.m., Nov. 11, for repaving with granite pavement certain streets. Bids will also be received for furnishing and delivering 1000 bbl. portland cement.

+West New York, N. J.—The Town Council, Oct. 27, awarded the contract to PATRICK CURTIN and THOMAS CAVANAUGH, West New York, for paving Palisade Ave. with asphalt, from 12th St. to the Union Hill Township line. Noted Oct. 1.

+Birmingham, Ala.—The contract for improving 198,000 yd. of the Jasper Rd. has been awarded to C. H. SPENCER at 70c. per yd.

+New Orleans, La.—(Official)—A contract for constructing a main public highway from Covington to Washington Parish Line, St. Tammany Parish, has been awarded to JOHN P. KENNEDY, 85 Convention St., Baton Rouge, at $23,505. Other bids were: W. E. Geren, $28,957; Hemingway Bros., $32,070; H. J. Bonnabel, New Orleans, $28,658; S. A. Gano, $31,248; S. K. Jones, $26,924; J. M. George & Son, Joaquin, Tex., $26,906; Boyd & Bradshaw, Columbia, Miss., $24,492. Noted Oct. 8.

New Orleans, La.—The Commission Council has decided to pave Dumaine St. from Urculines to Esplanade with pitch lake asphalt.

Jackson, Ky.—The City Council contemplates holding an election to vote on issuing $15,000 in bonds for macadamizing streets.

Louisville, Ky.—Bids will soon be received by the Board of Public Works for paving Hill St. from Fourth to Sixth St. with bituminous macadam.

✚Louisville, Ky.—The contract for reconstructing Ninth St. from Magazine to Madison St. has been awarded to HENRY BICKEL CO., Louisville, at $10,500.

✚Vanceburg, Ky.—A contract for constructing 1½ miles of water-bound macadam road has been awarded to JAMES I. HILL.

✚Cincinnati, Ohio—(Official)—The contract for improving Humphrey's Hill, in Symes Township, and Hoover Road, in Whitewater Township, has been awarded to JAMES L. RADABAUGH, Montgomery, Ohio, at $5880. Noted Oct. 1.

✚Columbus, Ohio—The State Highway Commission awarded contracts as follows:

Columbiana County, Unity-Salem Road, brick, MORGAN BROS., Ravenna, Ohio, at $7269.

Williams County, Sect. 1, Edon-Cooney Road, waterbound macadam R. M. MYERS, Attica, Ohio, at $12,999.

Stark County, Sect. F, Canton-Massillon Road, brick, F. L. COHEN, Buffalo, Ohio, at $56,200.

Lawrence County, Sect., Jackson-Ironton Road, J. C. GANNON, Ironton, Ohio, at $10,100.

Wayne County, Sect. M, Wooster-Massillon Road, brick, ENTERPRISING PAVING & CONTRACTING CO., Cleveland, Ohio, at $54,984.

Harrison County, Sect. 2, Cadiz-Carrollton Road, waterbound macadam. JOHN M. WHEELER, Cadiz, Ohio, at $11,343.

Hardin County, Sect. G, Roundhead-Ada Road, waterbound macadam. SOUSLEY & BOLSLIN, Ada, Ohio, at $6640.

Scioto County, Sects. G and H, Portsmouth-Columbus Road, brick and concrete. A. W. BURNS & CO., Columbus, Ohio, at $81,820.

Monroe County, Sect. F, Ohio River Road, concrete. FOSTER CONSTRUCTION CO., Richmond, Ind., at $18,888.

Butler County, Columbia Bridge Road, macadam. GARVER & WERTZ, Hamilton, Ohio, at $10,703.

Summit County, Cleveland-East Liverpool Road, brick. L. H. YOUNG CONTRACTING CO., Youngstown, Ohio, at $42,520.

✚Girard, Ohio—The contract for paving a section of Prospect St. has been awarded to TURNER & OLSEN, Youngstown, at $6355. Noted Oct. 22.

✚Greenspring, Ohio—The contract for paving West Adams St. has been awarded to LEE BROS., Clyde, Ohio, at $15,339.

✚Hubbard, Ohio—The contract for paving South Main and East Liberty St. has been awarded to TURNER & OLSON, Youngstown, at $32,500.

✚Indianapolis, Ind.—The contract for constructing a road on the line between White and Tippecanoe Counties has been awarded to BEN OILER, Battle Ground at $12,300.

✚Paoli, Ind.—A contract for constructing a gravel road has been awarded to A. L. WAYRICK, French Lick, Ind.

✚Spencer, Ind.—The contract for constructing the Lafayette Township Road has been awarded by the County Commissioners to WOOD & CARPENTER, Spencer, Ind., at $7447. Noted Oct. 1.

✚Detroit, Mich.—(Official)—Contracts have been awarded for paving Sterling Ave. from Holden Ave. to West Grand Blvd. to J. PORATH, at $5708. Other bids were: Otis Cement Construction Co., $5876; F. Porath & Son, $6291; E. Meredith Co.; $6994; T. E. Currie, $6266; Central Ave. from Lodge to Ferndale Ave. to OTIS CEMENT CONSTRUCTION CO., at $13,598; Other bids were: J. Porath, $14,606; F. Porath & Son, $14,841; E. Meredith & Co., $14,779; J. A. Mercier, $14,270; T. E. Currie, $15,030.

Chicago, Ill.—According to press reports the City Council contemplates constructing a boulevard to connect the north and south side boulevard systems. Estimated cost is $8,000,000.

✚Galesburg, Ill.—The contract for repaving North Cedar St. has been awarded to J. B. McAULEY, at $29,178. The only other bid was that of P. H. Tiernan, at $29,389.

St. Louis, Mo.—(Official)—Bids will be received by the Board of Public Works, until noon, Nov. 10, for reconstructing Miami St. from Broadway to Oregon Ave. The estimated cost is $28,647. E. R. Kinsey is Pres. and W. T. Findly is Secy.

McKinney, Tex.—(Official)—Bids will be received by the County Commissioners until noon, Nov. 18 for constructing the McKinney-Celina Rd. Paul Creager is Engr.-in-Charge.

Temple, Tex.—(Official)—Bids will be received by the Commissioners Court of Bell County, Belton until 10 a.m., Nov. 13 for constructing a number of streets. W. E. Hall is County Audr.

✚Tulsa, Okla.—(Official)—A contract for improving several streets has been awarded to F. P. McCORMICK, Tulsa, Okla. Noted Oct. 22.

✚Denver, Colo.—A contract for constructing 8½ miles of road from Pagosa Springs to the top of the Wolf Creek Divide has been awarded by the State Highway Commission to LOWELL & LOGAN, Pagosa Springs, at $19,691.

✚Salt Lake City, Utah—The contract for resurfacing Sixth East St. has been awarded to J. W. MELLEN, at $15,325. Other bids were: Strange & Maguire, $17,505; P. J. Moran, $16,761.

Kennewick, Wash.—The County Commissioners of Benton County plan to construct a road between Kennewick and Finley.

Seattle, Wash.—The City Council has authorized the paving with concrete Ewing St., Shoreland Drive, from Lake Park Drive to connect with existing pavement and for laying concrete sidewalks on Day St.

✚Seattle, Wash.—The contract for paving West Morgan St. has been awarded to H. BRICE at $5015.

✚Spokane, Wash.—The contract for curbing and paving, Gordon Ave. from Perry to Division St. has been awarded to C. M. PAYNE at approximately $5000.

Tacoma, Wash.—Plans are being prepared by M. Roy Thompson, County Engr., for the laying of six miles of pavement on Pioneer Way between Alderton and Orting.

✚Walla Walla, Wash.—The contract for constructing one mile of Inland Empire road between Walla Walla and Waitsburg has been awarded to L. L. LANNING, Walla Walla, at $6000.

Prairie City, Ore.—According to press reports a road will be constructed between Long Creek and Prairie City, a distance of 30 miles.

Glendora, Calif.—Bids will be received by the Board of Trustees until Nov. 9 for improving Media Ave. F. G. Dessery, 514 Central Bldg., Los Angeles, is Engr.-in-Charge.

✚Los Angeles, Calif.—Contracts have been awarded for street improvement as follows: Sapphire St.; GEORGE R. CURTIS at $7319; Alvarado St., S. McCRAY at $9022; Casanova St., WALTER OVERELL at $11,511.

Martinez, Calif.—The Mount Diablo Scenic Boulevard Co. is preparing to construct a toll road to the top of Mount Diablo, at an estimated cost of $60,000. R. N. Burgess, 734 Market St., San Francisco, Calif., is interested.

✚Riverside, Calif.—A contract for constructing nine miles of concrete paving on Route No. 4 has been awarded by the Commissioners of Riverside County to the CONNERS CONTRACTING CO., 709 Higgins Bldg., Los Angeles, at $28,462.

San Bernardino, Calif.—At a recent election, the citizens voted in favor of issuing $1,750,000 in bonds for highway construction.

San Francisco, Calif.—The Board of Public Works has authorized the paving of Sloat Blvd. at an estimated cost of $56,400. Noted Oct. 8.

Visalia, Calif.—An election will be held Dec. 3, to vote on the question of issuing $1,488,555 in bonds for permanent road improvements.

Ottawa, Ont.—The City Council contemplates paving Lisgar St. from Elgin to Bank St., Bronson St. and Rocmac St. from Laurier to Slater St.

✚Toronto, Ont.—The Board of Control contemplates extending Wilton Ave. from Bolton to Logan Ave. The estimated cost is $622,000. R. C. Harris is Comr. Pub. Wks.

INDUSTRIAL WORKS

Worcester, Mass.—The Pan American Match Co., Burnett St., is having plans prepared for a two-story, 78x230-ft. reinforced concrete factory.

The Hovey Laundry Co. will erect a four-story building on Austin St. The estimated cost is $35,000.

New York, N. Y.—(Borough of Bronx)—Plans have been completed for the three-story brick bakery at Wales Ave. and 142d St., for the Ward Baking Co. The estimated cost is $75,000.

✚(Borough of Manhattan)—The contract for the construction of the factory at 612 East 15th St., for Thomas Crump, Greenwich, Conn., has been awarded to the HELLMAN CONSTRUCTION CO., 160 East 66th St.

(Borough of Queens)—Plans have been completed by Henry J. Horwitz, Arch., New York, for the five-story carpet factory at Webster and Sixth Ave., for Anna S. Anabel, Morristown, N. J. The estimated cost is $80,000.

Olean, N. Y.—The Vacuum Oil Co. will erect an addition to its refining plant at Olean. The estimated cost is $125,000.

✚Newark, N. J.—The Public Service Electric Co. has awarded a contract to the LACKAWANNA BRIDGE CO. for structural and ornamental steel work for its new electric power station at Point-No-Point.

Philadelphia, Penn.—Ferdinand B. Fleming has purchased a site at Front and Florist St., upon which will be erected a two-story factory. The estimated cost is $40,000.

✚Pittsburgh, Penn.—The contract for the six-story reinforced concrete warehouse on Forbes St., has been awarded to the FETZER WINGER CO. The estimated cost is $40,000.

Baltimore, Md.—The Hubbard Fertilizer Co., 802 Keyser Bldg., will rebuild the factory and warehouse recently destroyed by fire.

New Orleans, La.—The Board of Commissioners of the Port of New Orleans will erect cotton warehouses and a terminal consisting of one-story reinforced concrete warehouses, cotton compress shed and building, and reinforced concrete wharf. The estimated cost is $2,500,000.

✚Louisville, Ky.—The general contract for the construction of the warehouse for the Fireproof Storage Co., has been awarded to the NATIONAL CONCRETE CONSTRUCTION CO., Louisville, Ky.; stone work PETER BURGHARD STONE CO., sheet metal, J. F. WAGNER & SONS, iron work, JOSEPH HALSTEAD & CO., Chicago, Ill. Noted June 25.

✚Cleveland, Ohio—The contract for the construction of a 75x156-ft. factory, on West 117th St., for the Cleveland Welding & Mfg. Co., has been awarded to the HUNKIN-CONKEY CONSTRUCTION CO., 321 Cuyahoga Bldg.

Cleveland, Ohio—Bids will be received about Jan. 1, 1915, by the Belt Line Terminal Warehouse Co. for the construction of a four-story and basement, 150x340 ft. warehouse. Estimated cost, $150,000. W. S. Ferguson Co., 1900 Euclid Bldg., Cleveland, is the Arch.

Springfield, Ohio—Robert C. Gowalt, Arch., has prepared plans for the construction of a two-story, 20x90-ft. addition to the plant of the Nolte Brass Co.

Bay City, Mich.—The United States Pipe Co. contemplates constructing two buildings, 40x60 ft. and 25x100 ft.

Chicago, Ill.—The Justrite Mfg. Co. contemplates constructing a plant at Hawthorne and Southport Ave., estimated to cost $100,000.

✚Rockton, Ill.—The general contract for the construction of the factory for the Great Northern Mfg. Co., has been awarded to W. D. REICHENBACH, 603 Mulberry St. The estimated cost is $10,000.

✚South Germantown, Wis.—Contracts have been awarded for the construction of a milk condensing plant for the Badger Condensed Milk Co., for general contract, DAHLMAN CONSTRUCTION CO., Milwaukee, Wis.; steel work, WORDEN ALLEN CO., Milwaukee, Wis.

✚Bovey, Minn.—The general contract for the construction of the one-story 40x48-ft. creamery for the Farmers' Co-Operative Creamery Co., has been awarded to CHARLES CHALBERG, Bovey, Minn.

✚**Sioux Falls, S. D.**—The contract for the construction of a five-story and basement, 91x119-ft. factory for the Manchester Biscuit Co., has been awarded to O. H. PAULSON CO., Stillwater, Minn. Estimated cost, $80,000. Noted Aug. 20.

Taylor, Tex.—The Taylor Bonded Warehouse Co. contemplates constructing a 100x400-ft. warehouse.

Denver, Colo.—The M. J. O'Fallon Supply Co. contemplates constructing a four-story fireproof warehouse on Blake St., between 22d and 23d St. Estimated cost, $25,000.

Lehi, Utah—The Hastings Industrial Co., Chicago, Ill., contemplates the construction of a canning factory, to cost $10,000.

Port Angeles, Wash.—Plans are being prepared for the Puget Sound Mills & Timber Co., for the construction of a box factory. Estimated cost, $40,000.

Seattle, Wash.—The contract awarded to the Butler Construction Co., for the construction of the first unit of the cold storage warehouse, at the East Waterway Turning Basin, has been rescinded by the Seattle Port Commission. Bids will be received about Dec. 1. Noted Oct. 15 and Oct. 29.

Seattle, Wash.—A. Henegan, 2309 Madison St., is contemplating the construction of a plant to cost $60,000.

Wenatchee, Wash.—W. J. Patterson, Salem, Ore., contemplates constructing an evaporating plant at Wenatchee.

Hood River, Ore.—The Stanley Smith Lumber Co., recently destroyed by fire, will be rebuilt, at an estimated cost of $65,000.

✚**Portland, Ore.**—The contract for alterations and additions to the plant of the Portland Electric Ice Co., 20th and Marshall St., has been awarded to the EISELGUHR CO., Los Angeles.

Stanfield, Ore.—The Peerless Air Motor Co. will erect a windmill factory at Stanfield. Frank R. Roles is local representative.

Richmond, Calif.—Plans are being prepared for a one-story, 140x200-ft. building for the Giant Valve & Mfg. Co.

Sacramento, Calif.—The Golden West Motors Co. contemplates constructing a one-story, 150x300-ft. addition. M. L. Burns, Ochsner Bldg., is Pres.

San Francisco, Calif.—The California Canneries Co. contemplates constructing a 200x300-ft. addition at Eighteenth and Minnesota St. Isidor Jacobs is Pres.

Vancouver, B. C.—Bids will be received soon by the Department of Public Works, for the construction of a 1,500,000-bu. grain elevator on the Government Dock.

Vancouver, B. C.—Bids will be received until Nov. 13, by Dept. of Trade & Commerce, Ottawa, for the construction of a reinforced concrete grain elevator.

FEDERAL GOVERNMENT WORK

Shipbuilding Cranes—Boston, Mass.—Bids will be received by H. R. Stanford, Chief, Bureau of Yards and Docks, Washington, D. C., until Nov. 9, for constructing shipbuilding cranes for the Boston and Philadelphia Navy Yards.

✚**Post Office**—Narragansett Pier, R. I.—The contract for the construction of the U. S. post office at Narragansett Pier, R. I., has been awarded to the CHARLES McCALL CO., 1715 Sansom St., Philadelphia, Penn., at $48,980. Noted Sept. 3 and Oct. 15.

★**Dredging**—New Haven, Conn. Bids will be received by Maj. G. B. Pillsbury, U. S. Engineer office, New London, until 2 p.m., Dec. 16, for dredging in New Haven Harbor.

Lighting Fixtures, Etc.—New York, N. Y.—The following bids were received by Oscar Wenderoth, Superv. Arch., Treasury Dept., Washington, D. C., for installing conduit and wiring system and lighting fixtures in the U. S. appraisers' warehouse, New York: W. G. Cornell Co., Washington, D. C., $27,795; Commercial Construction Co., New York, $33,333; Strang Electric Co., Philadelphia, Penn., $24,888; Eugene Frank, New York, $25,834; Jandus Electric Equipment Co., New York, $27,091; Watson-Flagg Engineering Co., New York, $26,985; McLeod, Ward & Co., New York, $29,700; Charles F. Brown, 515 East 78th St., New York, $24,324; H. R. Jackson, Newark, N. J., $27,000; Reading Electric Co., Reading, Penn., $30,875; Lewis H. Woods, New York, $28,980; Lord Electric Co., New York, $24,458; T. Frederick Jackson, New York, $29,041; Carroll Electric Co., Washington, D. C., $28,960; S. G. Waterman, New York, $24,788. Noted Sept. 24.

★**Mail Handling Apparatus**—New York, N. Y.—Bids will be received by Oscar Wenderoth, Superv. Arch., Treasury Dept., Washington, D. C., until 3 p.m., Dec. 10, for installing a mechanical system of mail-handling apparatus in the U. S. post office in New York.

Repairs To Building—Trenton, N. J.—The following bids were received by the custodian, U. S. post office, Trenton, for making repairs to the U. S. post office at Trenton: S. W. Mather & Sons, Trenton, $9660; W. J. & J. H. Morris, Trenton, $11,700; J. S. Rogers Co., Moorestown, N. J., $11,975. Noted Oct. 1.

Post Office—Carnegie, Penn.—The following bids were received by Oscar Wenderoth, Arch., Treasury Dept., Washington, D. C., for the construction of the U. S. post office at Carnegie: Conners Bros. Co., 157 Plain St., Lowell, Mass., $39,800; Harry A. Ergenranch, Pittsburgh, Penn., $45,714; Harry H. Wehmeyer, 1004 West Lehigh Ave., Philadelphia, Penn., $41,979; Golden & Crick, 3512 Fifth Ave., Pittsburgh, Penn., $46,934; John G. Unkefer & Co., Minerva, Ohio, $41,281; W. H. Fissell & Co., 1133 Broadway, New York, N. Y., $38,931; Charles McCaul Co., Philadelphia, $40,850; James Devault, Canton, Ohio, $39,500; E. T. Abbott Construction Co., 1133 Broadway, New York, $36,900; King Lumber Co., Charlottesville, Va., $44,759; Thomas W. Cissel, Wooster, Ohio, $45,746; Westchester Engineering Co., 6 Grand St., White Plains, N. Y., $38,765; F. F. Schellenberg & Co., Oliver Bldg., Pittsburgh, $38,000. Noted Sept. 24.

Porches—Philadelphia, Penn.—Bids received for constructing porches on marine Quarters, Nos. 4 and 5, Navy Yard, Philadelphia, have been rejected.

Shipbuilding Cranes—Philadelphia, Penn.—See item under Boston, Mass.

Gasoline Cutter—Philadelphia, Penn.—Bids will be received by Col. George A. Zinn., Witherspoon Bldg., Philadelphia, until noon Nov. 30, for constructing and delivering a gasoline cutter, including wooden hull and house.

★**Wicket Irons, Horses and Props**—Pittsburgh, Penn.—Bids will be received by Lieut.-Col. Francis R. Shunk, U. S. Engineer office, Pittsburgh, until noon, Dec. 2, for furnishing and delivering wicket irons, horses and props for Dam No. 1, Ohio River.

★**Excavating**—Wilmington, Del.—Bids will be received by Maj. E. N. Johnston, U. S. Engineer office, Wilmington, until 11 a.m., Nov. 23, for excavating Inland Waterway between Rehoboth Bay and Delaware Bay, Lewes Canal, Del.

Building—Washington, D. C.—Bids will be received by the Secretary Board of Commissioners, District Bldg., until 2 p.m., Nov. 9, for the repair and reconstruction of the Western High School. Chester Harding is one of the Comrs.

Motor Trucks—Washington, D. C.—The following bids were received by the depot quartermaster, U. S. Army, Washington, D. C., for furnishing two four-wheel drive motor trucks: Briggs-Seabury Ordnance Co., Sharon, Penn., $2640 each; Four-Wheel Drive Auto Co., Clintonville, Wis., $3380 each; Duplex Motor Co., Charlotte, Mich., $2200 each; Thomas B. Jeffrey Co., Kenosha, Wis., $2500 each. Noted Oct. 22.

✚**Trestles**—Wheeling, W. Va.—The contract for furnishing and delivering Poiree trestles, recess and engine pit covers for Dam No. 15, Ohio River, has been awarded to the TOLEDO BRIDGE & CRANE CO., Toledo, Ohio, at $5752. Noted Sept. 24, and Oct. 29.

★**Piling**—Wilmington, N. C.—Bids will be received by Maj. H. W. Stickle, U. S. Engineer Office, until Dec. 1, for furnishing and delivering 2716 pieces short leaf pine piling.

✚**Repairs**—Mobile, Ala.—The contract for repairs to screenwork and lighting, at the U. S. customhouse, Mobile, has been awarded to JETT BROS. CONTRACTING CO., Mobile, at $8688.

Earthwork—Vicksburg, Miss.—Bids will be received by Maj. F. R. Slattery, War Dept., Mississippi River Comn., Third Dist., until 11 a.m., Nov. 10 for constructing about 267,000 cu.yd. of earthwork in this district.

Earthwork—New Orleans, La.—Bids will be received by Maj. W. G. Caples, Queen & Crescent Bldg., New Orleans, until 11 a.m., Nov. 9, for constructing about 2,157,000 cu.yd. of earthwork, in the Lower Tensas, Atchafalaya, Lafourche, Barataria and Lake Burgue levee districts.

Rock—New Orleans, La.—The following bids were received for furnishing and delivering rock on the Mississippi River. Lester F. Alexander, New Orleans, La., 6000 tons for delivery at New Orleans on U. S. barges, $2.05 per ton; Big Rock Stone & Construction Co., Little Rock, Ark., 25,500 tons, for delivery at Vidalia, La., on U. S. barges, at $1.95 per ton. Noted Oct. 22.

Brush and Poles—Memphis, Tenn.—Bids will be received by Maj. E. M. Markham, Custom House, Memphis, until 11 a.m., Nov. 6, for furnishing 24,500 cords of brush and poles for revetment work in the first and second districts, Mississippi River.

✚**Post Office**—Shelbyville, Tenn.—The contract for the construction of the U. S. post office at Shelbyville has been awarded to VOLNEY E. TAYLOR, Huntington, W. Va., at $45,480. Noted Sept. 10 and Oct. 22.

Post Office—Robinson, Ill.—Bids will be received by Oscar Wenderoth, Superv. Arch., Treasury Dept., Washington, D. C., until 3 p.m., Dec. 4, for constructing the U. S. post office at Robinson. The building will be one story and basement, of brick and stone.

Buildings—Saratoga, Wyo.—Bids will be received by the Commissioner of Fisheries, Washington, D. C., until 2 p.m., Nov. 27, for constructing a hatchery building, a superintendent's residence, and a fish culturist's cottage at the Saratoga.

★**Canal Construction**—Great Falls, Mont.—Bids will be received at the office of the United States Reclamation Service, Great Falls, until 2 p.m., Dec. 8, for the construction of a portion of the Pishkun Reservoir Supply Canal, involving about 68,000 cu.yd. of excavation, 1600 cu.yd. of concrete, the placing of about 245,000 lb. of reinforcing steel and the placing in wooden structures of about 28,000 ft. b.m., of lumber. For further particulars see advertisement under "Contracts to Be Let."

✚**Canals and Dikes**—Malta, Mont.—The contract for the earthwork and construction work in connection with the Nelson Reservoir outlet canals, dikes and controlling works, has been awarded to the SECURITY BRIDGE CO., Minneapolis, Minn. Noted Sept. 10 and Oct. 29.

★**Canal Work**—St. Ignatius, Mont.—Bids will be received at the office of the U. S. Reclamation Service, St. Ignatius, until 3 p.m., Dec. 15, for the construction of about 38 miles of canals and laterals involving the excavation of about 105,000 cu.yd. of material. For further information see advertisement under "Contracts to Be Le."

Post Office—Bryan, Tex.—Bids will be received by Oscar Wenderoth, Superv. Arch., Treasury Dept., Washington, D. C., until 3 p.m., Dec. 18, for constructing the U. S. post office at Bryan. The building will be one story and basement of brick and stone.

Dredging and Jetty Work—Port Townsend, Wash.—According to press reports, the following are the bids received for dredging and jetty construction in Port Townsend Bay and Oak Bay: Puget Sound Bridge & Dredging Co., $51,485; Tacoma Dredging Co., $55,129; Erickson Construction Co., $59,018. Noted Oct. 8.

Bridges—Portland, Ore.—Bids will be received by Maj. Jay J. Morrow, U. S. Engineer's office, Portland, until 11 a.m., Dec. 7, for constructing eight steel swing bridges for the Dalles-Celilo Canal.

Fuel Oil—Panama—Bids will be received by Maj. F. C. Boggs, Gen. Pur. Officer of the Panama Canal, Washington, D. C., until 10:30 a.m., Nov. 23, for furnishing f.o.b. at either Cristobal Atlantic port or Port of Ancon Balboa, Canal Zone, Pacific port, Isthmus of Panama, fuel oil for the period beginning Jan. 1, 1915 and ending Dec. 31, 1915. Noted Oct. 15.

Post Office—Glens Falls, N. Y.—Bids will be received by Oscar Wenderoth, Superv. Arch., Treasury Dept., Washington, D. C., until 3 p.m., Dec. 17, for constructing a U. S. post office at Glens Falls. The building will be two-stories and basement, of brick and stone.

MISCELLANEOUS

✚Breakwater—Boston, Mass.—The Port Directors have awarded the contract for the construction of a timber breakwater on the easterly side of the Fish Pier, South Boston, to W. H. ELLIS & SON CO., at $17,879. Other bids were as follows: George T. Rendle Co., $18,640; H. P. Converse & Co., $21,977; W. T. Rendle, $22,360. Noted Oct. 15.

✚Dredging and Bulkheads—Lynn, Mass.—The State Board of Harbor and Land Commissioners has awarded the contract for dredging and building bulkheads in the Saugus River to the EASTERN DREDGING CO., at about $95,000. Noted Sept. 10.

✚Comfort Station—Springfield, Mass.—The contract for the construction of a public comfort station has been awarded to the A. E. STEPHENS CO., Springfield. An appropriation of $24,000 has been made for the building.

Barge Canal Work—Albany, N. Y.—(Official)—The following bids were received, Oct. 27, by Duncan W. Peck, State Supt., Pub. Wks., for (a) Contract 14-B, closing the openings in the Barge Canal dam in the Mohawk River below Crescent, removing the old Erie Canal aqueduct and the toll bridge at Crescent and making repairs to the lock and dam at Vischer's Ferry; (b) Terminal Contract No. 35, for constructing a dockwall on the north side of the Mohawk River near the site of the canal aqueduct at Crescent: Brown & Lowe, Schenectady, (a) $71,410, (b) $11,199; F. W. Foley Contracting Corporation, New York, (a) $71,960, (b) $9918; John W. Davitt, Albany, (a) $72,650; Drilling Contracting Co., Inc., Amsterdam, (a) $73,280; State Highway Construction Co., Beacon, (a) $73,360; Larkin & Sangster, Seneca Falls, (a) $74,030, (b) $10,959; Louis B. Cleveland, Watertown, (a) $79,168, (b) $11,721; Mason, Hilton & Co., New York, (a) $82,069, (b) $12,479; Flood & Van Wirt, Hudson Falls, (a) $86,759, (b) $10,209; Eastover Construction Co., Inc., Utica, (a) $101,000; Young & Hyde, Schenectady, (b) $11,905; S. R. Rosoff, Herkimer, (b) $10,382; McHarg & Barton, New York, (b) $12,260; Edwin B. Salisbury, Mechanicsville, (b) $10,396; Robert I. Gleason, Albany, (b) $10,716; George Holler, Albany, (b) $10,435; Norton & Gorman Contracting Co., Brooklyn, (b) $10,746. Noted Oct. 1.

★Tile Floors, Metal Work—Albany, N. Y.—(Official)—Bids will be received, until 2 p.m., Nov. 12, by the Trustees of Public Buildings, Albany, N. Y., for new tile floors, hollow metal doors, steel lockers and filing cases, and general construction work, also electric wiring for Document Room in the New York State Capitol, Albany, N. Y. Drawings and specifications may be consulted at the New York office of the Department of Architecture, Room 1224 Woolworth Bldg., New York, and at the Department of Architecture, Albany. Lewis F. Pilcher is State Arch.

Dock—Dunkirk, N. Y.—The plans and specifications prepared by W. H. Shelton, City Engr., for the municipal dock, have been approved by the City Council. The estimated cost is $100,000. The U. S. government has made an appropriation of $90,000 for harbor and breakwater improvements contingent upon its construction. Noted Sept. 10.

Steam Asphalt Rollers—New York, N. Y.—(Borough of Manhattan)—(Official)—Bids will be received by Marcus M. Marks, Borough Pres., until 2 p.m., Nov. 11, for furnishing and delivering five steam asphalt rollers.

★✚Creek Improvement—Syracuse, N. Y.—(Official)—The Syracuse Intercepting Sewer Board has awarded the contract for the improvement of Onondaga Creek to JOHN YOUNG, Syracuse, at $167,770. Other bids received were as follows: Walsh Construction Co., $168,775; E. W. Foley Construction Co., $180,103; State Highway Construction Co., $194,490; Larkin & Sangster, $202,503. Glenn D. Holmes is Ch. Engr. Noted Sept. 24, Oct. 29.

Pier Extensions—Jersey City, N. J.—The Central R.R. of New Jersey has applied to the New Jersey Riparian Commissioners for permission to extend its piers at Communipaw to a point 800 ft. back of Bedloe's Island.

Grandstand—Newark, N. J.—The Board of Freeholders has authorized the erection of a grandstand at the Weequahic Park Race Course, estimated to cost $30,000; construction will be under the jurisdiction of the Essex County Park Commission.

✚Stables—Newark, N. J.—The Board of Works has awarded the contract for the erection of the city stables on Elizabeth Ave., to E. M. WALDRON, INC., at $180,000. Noted July 30.

Harbor Improvement Bonds—Trenton, N. J.—The Board of City Commissioners has authorized an issue of $50,000 in bonds to be used for harbor improvements. Frank Thompson is City Clk.

✚Monument—Baltimore, Md.—The Maryland division of the Daughters of the Confederacy has awarded the contract to MAXWELL MILLER, Baltimore, at $16,000, for the construction of the monument to the Maryland Women of the Confederacy.

Arch and Retaining Wall—Richmond, Va.—Bids will be received, until Nov. 6, by the city for the construction of retaining walls and an arch under Broad St. Charles E. Bolling is City Engr.

Drainage Bonds—Salisbury, N. C.—The Board of Drainage Commissioner for Sill's Creek Drainage District proposes to issue bonds for $19,000, representing the cost of drainage improvements contemplated by the district. J. F. Turner is Chmn. C. M. Miller is Engr. and Supt.

✚Retaining Wall—Atlanta, Ga.—The Georgia School of Technology has awarded the contract to H. J. CARR & CO., at $12,000, for the construction of a retaining wall on West North Ave.

Amusement Park—Macon, Ga.—The Coney Island Amusement & Realty Co., Coney Island, N. Y., has leased Crump's Park which it will remodel, making extensive additions and improvements, including roller coaster, toboggan slide, circle swing, roller skating rink, dancing pavilion and natatorium. R. F. Jeffereys, Landscape Arch., will be in charge.

Elimination of Grade Crossing—Macon, Ga.—The Central of Georgia Ry,, it is reported, plans to construct a reinforced-concrete underpass from Plum and Sixth St. to Plum and Fifth. The estimated cost is $74,000. C. K. Lawrence is Ch. Engr.

Sea Wall and Filling—Lake Worth, Fla.—The city contemplates extensive improvements in the lake frontage, including 600 ft. of seawall, three-acre fill for a park, two yacht harbors, lake shore drive and baseball park. G. Sherman Childs is City Engr.

Levee Work—Vicksburg, Miss.—The lowest bid received for the construction of 2,000,000 yd. of levee enlargement along the Arkansas River in the Third District, was that of John R. Scott, St. Louis, Mo., at $280,000.

Dredging—Portland, Ind.—The City Council contemplates dredging the Salamonia River through the city of Portland.

✚Drain—St. John's, Mich.—The Clinton County Board has awarded the contract for the construction of the Remey-Chandler Drain to JAMES W. SANDERSON, at $25,000.

✚River Improvement—Kankakee, Ill.—The contract for constructing 28 miles of ditch, 15 ft. deep and 100 ft. wide, to divert the Kankakee River for the elimination of curves, has been awarded to the McWILLIAMS CO., Chicago, at $300,000.

Drain—Clarion, Iowa—(Official)—Bids will be received, until 2 p.m., Nov. 12, by F. E. Osier, County Audr., for the construction of Drain No. 90, requiring 5362 ft. of open ditch and 27,500 ft. of tile drain.

✚Drain—Clarion, Iowa—The contract for the construction of Drain 108 has been awarded to HANS J. DIXON, Coulter, at $13,449. F. E. Osier is County Audr. Noted Oct. 22.

Ditch—Blue Earth, Minn.—Bids will be received by Jesse L. Herring, County Audr., until Nov. 11, for the construction of Ditch No. 20. The work includes 153,664 cu.yd. open ditch and about 459,000 ft. of 6-in. to 30-in. No. 1 hard burned clay or cement tile.

Ditch—Marshall, Minn.—Bids will be received, until 9 a.m., Nov. 9, by E. S. Shepard, County Audr., for the construction of Ditch No. 13. Tile work estimated to cost about $14,659; and $5384 for open work.

✚Ditch—Red Lake Falls, Minn.—The contract for the construction of Judicial Ditch No. 60 has been awarded to D. A. FOLEY & CO., Aitkin, Minn., at $41,087. The contract calls for 424,000 cu.yd. of excavation, 75 corrugated metal culverts and 1300 cu.yd. of reinforced concrete. Noted Oct. 8.

✚Ditch—Windom, Minn.—The contract for the construction of Judicial Ditch No. 6 has been awarded to REDDING & SMAAGE, at $20,757.

Drainage Bonds—Jefferson City, Mo.—Fabius Drainage District will issue bonds to cover the cost of reclaiming 22,000 acres of swamp and overflow land in Lewis and Marion counties. The estimated cost is $300,000. John H. Nolan is Land Reclamation Comr.

Drainage and Levee Work—New Madrid, Mo.—St. John Levee and Drainage District, comprising 315,000 acres in New Madrid and Mississippi counties, plans to construct several hundred miles of canals and 6,200,000 cu.yd. of levees; entire project calls for 970,000 cu.yd. floating dredge work, 12,000,000 cu.yd. of drag line excavation, and 200,000 cu.yd. of suction dredge work. Total estimated cost is $3,750,000. The Miller Engineering Co., Little Rock, Ark., is in charge of the construction.

Dredging—South St. Joseph, Mo.—The city, county and stockyards companies have made arrangements for financing the plan to dredge Brown's branch. The city engineer's estimate is $12,000.

Drainage District—Horatio, Ark.—A petition has been filed in the county court for the creation of a levee and drainage district of 43,000 acres in the Cossatot and Little Rivers section. The estimated cost of the levee and 15 miles of channel changes is about $97,800.

Drainage—Houston, Tex.—Bids will be received, until Nov. 21, by Harris County Drainage District No. 7, C. L. Anderson, Chmn., for the construction of drainage canals in the district. Successful bidder to purchase entire bond issue of $140,000. J. S. Burk, 1818 Walker Ave., Houston, is the Engr.

✚Drainage—Downey, Idaho—The Woodland Drainage Corporation has awarded the contract for draining 3000 acres of land in the district to the H. N. THORNTON CO., Salt Lake City, at $15,000.

Vessel—Bellingham, Wash.—Captain E. R. Gawley, of the Bellingham-Alaska Trade & Transportation Co., announces that plans are being prepared and bids will soon be received for the construction of a 1000-ton capacity vessel of light draft.

Fire Hose—Portland, Ore.—Bids will be received by the City Purchasing Agent for fire hose to cost $12,000.

Motor Fire Apparatus—Portland, Ore.—Bids will be received, until 2 p.m., Nov. 16, by J. R. Wood, City Pur. Agt., for furnishing one six-cylinder motor hook and ladder truck, with one chemical engine, and one four-cylinder motor chemical engine.

✚Vessel—St. Helena, Ore.—The International Portland Cement Co., Spokane, has awarded the contract for building a tugboat to the ST. HELENS SHIPBUILDING CO.

Pier—Longbeach, Calif.—Trounce & Stoecker, Owl Bldg., San Diego, at $46,600, submitted the lowest bid for the construction of the reinforced-concrete pier to be built at Longbeach in accordance with plans and specifications prepared by John Schulz, Engr., Wright & Callender Bldg., Los Angeles. Noted June 18.

Tunnel—San Francisco, Calif.—(Official)—Bids for the construction of the Twin Peaks Tunnel were received by the Board of Public Works on October 28. The lowest bid was that of R. C. Storrie & Co., at $3,372,000. Three other contractors submitted bids as follows: McArthur Bros., $3,385,960; H. Pederson, $3,450,300; Towhy Bros. and P. Welsh, $3,369,630. This is the third time that bids have been received for this work. On the first occasion, there were no bidders due to the high bond demanded. On the second, one Hans Pederson submitted a bid for $3,475,300, but it was rejected due to interlineation. The City Engineer has the various proposals under advisement and it is expected that the contract will be awarded within a few days. The engineer's estimate was $3,433,535. M. M. O'Shaughnessy is City Engr.

BUILDINGS

Brockton, Mass.—Waldo V. Howard and Ralph P. Jackson, Archs., have prepared plans for the construction of a school on Crescent St. The estimated cost is $95,000.

Holyoke, Mass.—The Board of Public Works has retained G. P. B. Alderman, Arch., to prepare plans for the Central Grammar School.

Pittsfield, Mass.—Bids will be received by J. McArthur Vance, Pittsfield, for an addition to the school at Pittsfield.

★**Buffalo, N. Y.**—The lowest bids received by Col. Franklin W. Ward, Secy. State Armory Comn., 174 State St., Albany, for armory and stable at Buffalo, for Troop I, were as follows: General construction, E. H. Everett, Buffalo, at $111,565; heating, R. T. Ford, Rochester, N. Y., $5497; plumbing, George H. Drake, Buffalo, N. Y. Noted Oct. 22.

Florida, N. Y.—Alfred Peters, Arch., Metropolitan Bldg., Newark, N. J., is preparing plans for a parochial school at Florida, for the parish of St. Joseph. The estimated cost is $40,000.

Keeseville, N. Y.—Frank J. Dwyer, Arch., 12 Academy St., Amsterdam, N. Y., has completed revised plans for the two-story high school on Front St., for the Board of Education. The estimated cost is $40,000.

★**Lockport, N. Y.**—Bids will be received, until 8 p.m., Nov. 17, by Emmet Belknap, Clk., Bd. of Education, Lockport, for the enlargement and improvement of the Union School. W. Neil Smith, 101 Park Ave., New York, is the Arch.

New York, N. Y.—(Borough of Manhattan)—Plans have been filed by the Interborough Rapid Transit Co., for the construction of a five-story building at 156 East 42d St. The estimated cost is $50,000.

Plans have been prepared for the construction of a 12-story apartment house at Park Ave. and 61st St., for the Edgar A. Levy Park Ave. Co. The estimated cost is $525,000.

✚The general contract for the construction of the Y. M. C. A. building at 6 East Third St., has been awarded to the GEORGE A. FULLER CO., 111 Broadway, New York. The estimated cost is $400,000.

Plans have been completed by Schwartz & Gross, Archs., 247 Fifth Ave., for the 12-story apartment house to be erected at Colonial Parkway and 160th St., for Albert J. Schwarzler. The estimated cost is $800,000.

✚The structural steel contract for the six-story brick hospital at 109th St. and Amsterdam Ave. for the Women's Hospital has been awarded to BIGELOW & NICHOLS, 30 East 42d St. Noted Oct. 15.

Plattsburg, N. Y.—The city contemplates the erection of a city hall. W. H. Coff, Weed Block, is Mayor. The estimated cost is $200,000.

Bayonne, N. J.—Plans have been completed by John H. and Wilson C. Ely, Archs., Firemen's Bldg., Newark, for the construction of a two-story city hall on Ave. C. The estimated cost is $400,000. Noted Sept. 17.

Jersey City, N. J.—St. Johns' Church on Summit Ave., recently destroyed by fire, will be rebuilt. Bids will be asked about Nov. 5.

Morristown, N. J.—The city is considering the construction of a high school to cost $150,000. John T. Simpson, Essex Bldg., Newark, N. J., is the Arch.

✚**Secaucus, N. J.**—The Board of Chosen Freeholders, awarded the contract to DENNIS MULLINS, INC., for constructing the one-story brick extension to the administration building, one-story brick extension to the Davis and Alexander pavilions, three-story extension to the infirmatory and six frame shacks at the Tuberculosis Hospital, at Snake Hill, Secaucus, at $114,900.

Lancaster, Penn.—Henry Y. Shaub, Arch., 37 East Orange St., Lancaster, has completed plans for the three-story, 100x155-ft. Y. W. C. A. building at Lancaster.

Nesquehoning, Penn.—Clyde S. Adams, Arch., 1233 Arch St., Philadelphia, has completed plans for the two-story brick high school at Nesquehoning.

✚**Pittsburgh, Penn.**—The contract for the construction of the high school at Edgewood, has been awarded to C. H. KERR. Boyd & Ingham are the Archs.

✚**Wilkinsburg, Penn.**—The contract for the construction of the church for the Second Universal Presbyterian congregation, has been awarded to HOFFMAN & CO., Wilkinsburg. The estimated cost is $80,000.

✚**Baltimore, Md.**—Contracts for the construction of the B. P. O. E. building have been awarded as follows: Marble work, EVANS MARBLE WORKS, 204 East York St.,; lumber, N. W. JAMES LUMBER CO., 921 Aliceanna St.; structural steel, CHESAPEAKE IRON WORKS, Bush and Severn St.; fireproofing, NATIONAL FIREPROOFING CO., Washington, D. C.; limestone, J. HOADLEY & SONS, Stinesville, Ind.; ornamental iron work, STOLLER & COOK, Trinity Ave., New York, N. Y.

Alexandria, Va.—The lowest bid received for the construction of the high school was submitted by R. P. Whitty Co., Union Trust Bldg., Washington, D. C., at $41,892.

✚**Charleston, W. Va.**—The contract for the church to be erected for the St. Paul Evangelical Lutheran congregation has been awarded to A. T. HAZEN, Charleston, W. Va. The estimated cost is $40,000.

Huntington, W. Va.—Plans have been prepared by Verner T. Ritter, Arch., Huntington, for the three-story high school at Huntington. The estimated cost is $300,000.

✚**Staunton, W. Va.**—The contract for the construction of the Y. M. C. A., building at Staunton, has been awarded to CULLEN & VAUGHN, Hamilton, Ohio, at $86,000.

Savannah, Ga.—Plans have been approved by the Georgia Hotel Co. for the construction of a hotel at Savannah. The estimated cost is $275,000.

Bids will be received, until Nov. 15, by H. W. Witcover, Arch., National Bank Bldg., for the construction of a three-story brick building for the Jewish Educational Alliance. The estimated cost is $75,000.

Clearwater, Fla.—Bids will be received until Nov. 14, by C. W. Weicking, Clk., Pinellas County, for alterations to the courthouse. Willis R. Biggers, Tampa, Fla., is the Arch.

✚**Panama City, Fla.**—The commissioners of Bay County have awarded the contract for the construction of a courthouse and jail to F. M. DOBSON & CO., Montgomery, Ala. Noted Oct. 1.

✚**Tampa, Fla.**—Contracts for the construction of the city hall have been awarded as follows: General contract, McGUKEN & HYER, Consumers' Ice Co. Bldg., Tampa; cement, LEHIGH PORTLAND CEMENT CO., Savannah; brick, HAYWALKER BRICK CO., Pittsburgh; steel and cast iron, CHATTANOOGA ROOFING & FOUNDRY CO.; reinforcing steel, ATLANTA STONE CO.; granite, CAPITOL STONE CO.; terra cotta, ATLANTA TERRA COTTA CO., all of Atlanta, Ga.

✚**Chattanooga, Tenn.**—The general contract for the gymnasium, to be erected for the University of Chattanooga, has been awarded to T. S. MOUDY & CO., Chattanooga, Tenn. The estimated cost is $40,000.

Memphis, Tenn.—Bids will be received, until Nov. 14, by Jones & Furbinger, Archs., Porter Bldg., for the construction of a temple for the Congregation Children of Israel. The estimated cost is $100,000.

Boston, Ohio—The Toledo Christian Endeavor Association contemplates constructing a building, to cost $100,000.

Cedar Point, Ohio—W. W. Hodges, Arch., 1119 Schofield Bldg., Cleveland, is preparing plans for the construction of a two-story hotel, for the Cedar Point Amusement Co. The estimated cost is $100,000.

Cincinnati, Ohio—Harry Hake, Arch., Provident Bank Bldg., is preparing plans for the construction of an eight-story department store at Fourth and Race St., for H. & S. Pogue. The estimated cost is $1,000,000.

Cleveland, Ohio—Bids will be received, until Nov. 21, by Walker & Weeks, Arch., 1900 Euclid Ave., for the construction of a six-story, 52x172-ft. hospital, to cost about $200,000. Noted Oct. 15.

Cleveland, Ohio—Jacob Babin, 13355 Euclid Ave., contemplates constructing a three-story building at Euclid and Lake Front Ave., at a cost of $60,000.

A. F. Janowitz, Arch., 323 Permanent Bldg., has prepared plans for the construction of an apartment house at East 18th St. and Ashbury Ave., for A. M. Gordon. Estimated cost, $50,000.

✚**Toledo, Ohio**—The contract for constructing the foundation for the First Congregational Church has been awarded to the McARTHUR CONCRETE PILE & FOUNDATION CO., 11 Pine St., New York, N. Y. Mills, Rhines, Bellman & Nordhoff, Ohio Bldg., Toledo, are the Archs.

Willoughby, Ohio—Bids will be received, until Nov. 15, by the Andrews Institute for Girls, for the construction of a memorial chapel, to cost about $30,000.

✚**Ann Arbor, Mich.**—The contract for the construction of a four-story and basement, 254x278-ft. science building, for the University of Michigan, has been awarded to IRWIN & LEIGHTON, 1338 Dime Bank Bldg., Detroit. The estimated cost is $300,000.

✚**Bay City, Mich.**—The contract for the construction of a three-story, 90x92-ft. Y. M. C. A. building, has been awarded to PRICE BROS., East Jordan. Estimated cost, $75,000. Noted Aug. 27.

Detroit, Mich.—Plans are being prepared by Smith, Hinchman & Grylls, 710 Washington Arcade Bldg., for the construction of a six-story and basement, 102x200-ft. court house, estimated to cost $600,000. George H. Fenkel, City Hall., Comr.

Chicago, Ill.—The Chicago Nursery and Half Orphan Asylum contemplates constructing an addition at Foster and North Francisco Ave., to be known as the Charles A. Chapin Memorial. Estimated cost, $70,000.

Chicago, Ill.—The directors of the John Crerar Library, recently incorporated, are contemplating the construction of a public library at East Randolph St and Michigan Ave. Estimated cost, $1,100,000.

Hamtramck, Mich.—Van Leyen & Schilling, Archs., 1117 Union Trust Bldg., Detroit, are preparing plans for the construction of a one-story, 106x197-ft. church, for the St. Florian Parish. Estimated cost, $100,000.

✚**Chicago, Ill.**—Contracts for the construction of an armory on West Washington Blvd., have been awarded as follows: C. E. CARSON CO., construction of the armory, $229,000; WHITE CITY ELECTRIC CO., electrical work, $4768; HANLEY CASE CO., heating and ventilation, $31,700. Noted Oct. 1.

Springfield, Ill.—S. J. Hanes, Arch., is preparing plans for the construction of a four-story, 40x157-ft. department store on Seventh and Adams St., for Mrs. S. Mendenhall. Estimated cost, $50,000.

Milwaukee, Wis.—A. D. Koch, Arch., is preparing plans for the construction of a 10-story building on West Water St., for the Ticonic Investment Co. Estimated cost, $250,000.

Superior, Wis.—Shurick and Solheim, Archs., Duluth, Minn., are preparing plans for the construction of a three-story brick building, to cost $40,000.

+Burlington, Iowa—The contract for the construction of two schools for the Board of Education has been awarded to J. H. HUNZINGER, Iowa City. The estimated cost is $79,238.

Minneapolis, Minn.—The First M. E. Church contemplates constructing a six-story dormitory for the University of Minnesota. Estimated cost, $90,000.

Minneapolis, Minn.—W. B. Ittner, Arch., St. Louis, Mo., and Stebbins & Haxly, Archs. for the Board of Education, have prepared plans for the construction of three grade schools. Estimated cost, $200,000. Noted Dec. 25, 1913.

Eureka Lake (Ogden post office), **Kan.**—The I. O. O. F. contemplates constructing a building estimated to cost $50,000. J. E. Brooks, Sedan, is Grand Master.

Salt Lake City, Utah—The Board of Education contemplates constructing a school on Tenth St., South, at an estimated cost of $75,000.

La Grande, Wash.—Houghtaling & Dougan, Archs., Henry Bldg., Portland, Ore., are preparing plans for the construction of a parochial school. The estimated cost is $75,000.

Seattle, Wash.—P. Davis contemplates consfructing a four-story department house, at Terry Ave. and Jefferson St., to cost $60,000.

West Seattle (Seattle post office), **Wash.**—The School Board of District No. 1 contemplates constructing a high school, to cost about $200,000.

Portland, Ore.—Bids will be received soon by the School Board, for the construction of the Shattuck School, on Broadway and College St. Estimated cost, $160,000.

+Alhambra, Calif.—The contract for the construction of three high schools has been awarded to JOHN SIMPSON CO., Baker-Detwiler Bldg., Los Angeles. The estimated cost is $66,435. Noted Oct. 1.

Los Angeles, Calif.—Bids will be received about Nov. 15 for the construction of a church, 100x225 ft., at Adams and Figueroa St., for the St. Vincent's Parish. Estimated cost, $200,000.

Sacramento, Calif.—The city authorities propose to build a jail and police court at Sixth and H St., to cost about $225,000.

+San Francisco, Calif.—The contract for the construction of the foundation of the Firemen's Fund Insurance Co. at Lansome and California St. has been awarded to the McARTHUR CONCRETE PILE & FOUNDATION CO., 11 Pine St., New York, N. Y. Lewis P. Hobart is the Arch.

Santa Monica, Calif.—The Pacific Telephone & Telegraph Co. have prepared plans for the construction of a three-story and basement central station at Fourth St. and Central Ave. The estimated cost is $50,000. Bids will be received soon by the engineering department at San Francisco.

Ventura, Calif.—Bids for the construction of the county hospital were rejected by the County Commissioners and new bids will be received about Jan. 1, 1915. Noted Sept. 24 and Oct. 1.

St. Thomas, Ont.—The Roman Catholics of St. Thomas contemplate constructing a hospital near Kettle Creek. Estimated cost, $100,000.

+Toronto, Ont.—The contract for the construction of the six-story and basement, 63x83-ft. office building, on University Ave., for the Providencial Hydro-electric Commission, has been awarded to WITCHALL & SON. Noted Oct. 1.

+New Westminister, B. C.—The contract for the construction of the three-story addition to the court house has been awarded to the DOMINION CONSTRUCTION CO., Vancouver, B. C., at an estimated cost of $56,000. Noted July 30.

Point Grey, B. C.—Bids will be received soon by the School Board for the construction of a school, to cost about $50,000. R. W. Twizell is the Arch.

BARGE CANAL WORK, ALBANY, N. Y.
Contract No. 14-B

Bids were received, Oct. 27, by Duncan W. Peck, State Supt., Pub. Wks., for Contract No. 14-B, closing openings in dam in the Mohawk River, removing bridge and aqueduct at Crescent and repairing dam at Vischers Ferry, from (A) Drilling Contracting Co., Amsterdam, N. Y.; (B) Eastover Construction Co., Utica, N. Y.; (C) Brown & Lowe, Schenectady, N. Y.; (D) Mason Hilton Co., 17 Battery Pl., New York, N. Y.; (E) E. W. Foley Contracting Corporation, New York, N. Y.; (F) Flood & Van Wirt Co., Hudson Falls, N. Y.; (G) State Highway Construction Co., Beacon, N. Y.; (H) Larkin & Sangster; Seneca Falls, N. Y.; (I) John W. Davitt, Albany, N. Y.; (J) L. B. Cleveland, Watertown, N. Y. The item bids were as follows:

	A	B	C	D	E	F	G	H	I	J
Coffer-dams, pumping, bailing and draining (lump sum)	$10,000.00	$12,000.00	$10,000.00	$10,000.00	$8,000.00	$12,000.00	$9,000.00	$7,000.00	$10,000.00	$9,540.00
6700 cu.yd. excavation	0.65	0.95	0.74	0.80	0.75	0.96	0.80	0.65	0.70	0.80
6000 cu.yd. forming embankment	0.15	0.18	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
120 cu.yd. lining	2.00	2.40	2.00	2.40	2.00	2.00	2.00	2.00	2.00	2.00
1.1 M.ft.b.m. sawed lumber, white oak	100.00	100.00	95.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
4 mooring piles 8 ft. long	5.00	5.00	15.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
720 cu.yd. first-class concrete	10.00	12.00	9.60	10.00	9.00	12.00	9.00	9.50	10.00	9.75
3540 cu.yd. second-class concrete	9.00	10.00	8.10	8.50	8.50	9.35	8.25	8.00	9.00	8.47
280 cu.yd. wash wall	2.00	2.40	2.00	2.20	2.00	2.00	2.00	2.00	2.00	2.00
500 cu.yd. second-class rip-rap	1.50	1.80	2.50	1.50	1.50	1.50	1.50	1.50	1.75	1.50
340 lin.ft. wooden fence	0.20	0.20	0.25	0.20	0.20	0.24	0.20	0.20	0.20	0.20
340 lb. miscellaneous metal	0.05	0.06	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Removing crescent aqueduct (lump sum)	17,000.00	35,000.00	17,900.00	27,000.00	20,000.00	24,000.00	21,000.00	25,000.00	16,460.00	24,950.00
Removing guide piers at Vischer's Ferry Lock (lump sum)	600.00	720.00	600.00	600.00	400.00	660.00	600.00	600.00	600.00	600.00
Deduct for removing Halfmoon Bridge (lump sum)	450.00	343.40	900.00	1,000.00	850.00	800.00	1,000.00	800.00	1,000.00	1,000.00
Extended totals	$73,280	$101,000	$71,410	$82,069	$71,960	$86,760	$73,360	$74,034	$72,650	$79,169

BARGE CANAL WORK, ALBANY, N. Y.

Bids were received, Oct. 20, by Duncan W. Peck, State Supt., Pub. Wks., for Contract K, constructing superstructure of three highway bridges in Seneca Falls and Waterloo and for Contract 115, constructing the superstructure of movable dam No. 4 over the Mohawk River at Scotia, from (A) Phoenix Bridge Co., 49 William St., New York, N. Y.; (B) Penn Bridge Co., Beaver Falls, Penn.; (C) Fort Pitt Bridge Co., 45 Broadway, New York, N. Y.; (D) Larkin & Sangster, Seneca Falls, N. Y.; (E) Toledo Bridge & Crane Co., Toledo, Ohio; (F) Lupfer & Remick, Buffalo, N. Y.; (G) Chesley, Earl & Heimbach, Inc., Buffalo, N. Y.; (H) Whitehead & Kales Iron Works, Detroit, Mich. The item bids were as follows:

CONTRACT K

	A	B	C	D	E	F	G	H
565 cu.yd. first-class reinforced concrete	$11.50	$10.40	$11.00	$12.00	$12.00	$10.00	$14.00	$12.00
1,391,000 lb. structural steel	0.0348	0.0355	0.0373	0.037	0.0372	0.0405	0.039	0.041
98,000 lb. metal reinforcement	0.0275	0.027	0.0275	0.0275	0.025	0.02	0.03	0.029
1300 sq.yd. asphalt block pavement	2.00	2.00	2.00	2.00	2.00	1.75	1.90	2.00
160 sq.yd. medina stone block pavement	3.00	3.00	2.60	3.00	3.50	2.50	2.75	3.00
970 lin.ft. lattice railing	1.50	1.70	1.75	2.10	2.00	1.75	1.70	2.00
12 oil signal lamps	15.00	15.00	15.00	15.00	15.00	15.00	12.00	15.00
Maintaining highway traffic (lump sum)	500.00	500.00	100.00	.....	500.00	500.00	400.00	500.00
Maintaining navigation (lump sum)	500.00	500.00	100.00	500.00	500.00	500.00	400.00	500.00
Total	$63,314.30	$63,811.50	$65,887.80	$66,739.00	$67,255.20	$69,498.00	$70,602.00	$72,853.00
Deduct for bridge superstructure at Ovid St.	100.00	100.00	100.00	100.00	100.00	280.00	102.00	10.00
Extended totals	$63,214.00	$63,711.00	$65,787.00	$66,639.00	$67,155.00	$69,218.00	$70,500.00	$72,843.00

CONTRACT 115

	A	B	C	F	H
2,430,000 lb. structural steel	$0.0398	$0.0373	$0.0414	$0.0406	$0.0444
81,000 lb. w.i. chains	0.06¼	0.06	0.07	0.06	0.07¼
30 M. ft. B.m. yellow pine sawed lumber	65.00	55.00	63.00	45.00	65.00
4.1 M. ft. B.m. white oak sawed lumber	100.00	100.00	90.00	100.00	100.00
240 lin.ft. w. i. pipe railing	1.50	1.25	1.50	1.50	1.50
112,600 lb. furnishing f.o.b. cars Scotia, buckle plates and miscellaneous metal	0.04	0.04	0 05	0.03¼	0.03
112,600 lb. hauling from cars Scotia and erecting buckle plates and miscellaneous metal	0.015	0.0125	0.015	0.15	0.15
1567 lin.ft. furnishing f.o.b. cars Scotia, w.i. pipe railing	1.30	0.75	1.00	0.80	1.00
1567 lin.ft. hauling from cars Scotia and erecting w. i. pipe railing	0.20	0.25	0.15	0.20	0.20
20 installing trolley brackets	3.00	3.00	3.00	3.00	3.00
Extended totals	$118,072.00	$123,694.00	$113,302.00	$112,895.00	$105,883.00

Safeguarding United States Investments—The precipitous decline in the price of securities listed on the New York Stock Exchange during the last days of July was due to the sales by foreign holders. It is estimated that our securities held abroad have an aggregate value of $3,000,000,000 to $5,000,000,000. To pay for these in gold would be impossible, to pay for them in foodstuffs and merchandise would entail great sacrifices, to pay for them in extended credits would entail the least disturbance to business here, and would, moreover, be most satisfactory to foreign holders. In a recent article in the "Journal of Commerce," which is reprinted in part, the opinion is expressed that the latter course may be worked out:

"The attitude of the administration toward the placing of the so called credit loans is practically a reply to the representations as to the situation that have been made to it. At the outbreak of the war, the view was taken that no foreign loans ought to be placed in the United States, because such action would be a violation of neutrality. This position led to the practical vetoing of a large French loan that was then being negotiated. The answer of foreigners was in substance that in that event they would simply call for the liquidation of American securities which their citizens were holding, and would use the cash proceeds in buying supplies. This proposition has practically led to a reconsideration of the problem. If foreign governments are allowed to place a sort of loan in the United States in the shape of a credit with American bankers, probably to be funded at a more convenient season into longer term securities, the consequence of such action is to obviate the necessity of placing such loans in their own territory. Citizens who would otherwise be disposed to take up the issues are not called upon to do so, and consequently the selling of American securities in order to realize funds for war operations is checked. The foreigners get American capital, but they get it on new terms as to interest and without the necessity of marking down their American issues.

"The United States uses its exports as a means of liquidating its current trade balance and of meeting such demands for the return of actually invested capital as may be made. The outcome is an adjustment of international relationships which obviates the further draining away of gold from the United States if the plan works smoothly. Assuming that it is put into effect with full success, the consequence of its operation would naturally be the readjustment of conditions and the probable early opening of the exchanges. This does not mean, of course, that such opening is necessarily to occur in any immediate future, although it is believed that healthier conditions would result if such opening were to occur. Even Southern cotton interests now seem to desire the reopening of the Cotton Exchange. But it does mean that the foundation of an accommodation looking in that direction will have been laid.

"The possibility of settling matters in this way was not opened until the question what should be actually regarded as contraband was tentatively settled, and such a settlement has been one of the objects most earnestly sought by the administration for a good while past. The adjustment on cotton is one of the features of the working out of the problem, and similar action in the way of determining exactly what export embargoes shall be enforced is in process of being planned. It is believed that complete revival of the export trade will be due to three conditions, as follows: (1) Growing dependence of foreign nations upon the supplies of food and goods in the United tSates; (2) settlement of outstanding questions regarding the treatment to be accorded to cargoes shipped in neutral vessels and to vessels in general under the American flag; (3) working out of a system of loans under which all nations will be able to make their bargains for American goods and pay for them in credits, such credits, of course, being charged off against obligations of the United States which would otherwise be likely to be liquidated by the sale of securities and the demand for cash in payment therefor.

"Students of international trade believe that, while the present active export movement will go on and will tend to keep our domestic establishments busy manufacturing and shipping goods abroad for a good while in order to make up for the lowered productivity of the nations that are at war, and while this will result in corresponding profits, inasmuch as the prices for the goods will necessarily be high and the return to makers in proportion, there will be a perceptible check to the further extension of enterprise in this country. This will result from the fact that the profits of the business we shall be doing will be simply used in liquidating obligations due abroad, or in taking up foreign obligations which call merely for payment in the future.

"There will be no foreign capital seeking investment on favorable terms in the United States. Indeed, loan agencies and institutions which have heretofore drawn their supplies of funds from abroad now report that they are doing no business whatever. Domestic owners of capital will be as little able to devote their wealth to new development. High interest rates paid on foreign securities will make an effective demand for the loan funds of the nation, and may result in the United States becoming more largely than heretofore the creditor of Europe. Whether the situation results in merely paying off some American obligations, or in taking over the ownership of a large block of European obligations, the consequence will be the same—to render capital costly in the United States, and to prevent the application or investment of capital in this country under the terms or on the conditions that have prevailed in the past.

"Much will depend, it is thought, upon the extent of the upward drift of exports within the next few months. There has been an energetic effort to get American cotton started again in British and continental markets, but this, while partially resulting in success, has hardly had the consequences as yet that had been hoped. While general exports are rising to surprising figures, and are, of course, helping the situation in a very material degree, they are not enough. It is the view of the best informed authorities that the cotton trade must in effect be reëstablished before a thorough improvement can be looked for. There have been charges, extensively believed in, that a combination of foreign buyers not to purchase cotton actually existed, and there has likewise been urgent demand that this alleged combination be broken down. If the effort to break it succeeds, the general trade prospect will, in the opinion of those who assert the existence of the combine, be immensely improved."

New Haven Indictments—In the United States District Court, on Nov. 1, indictments were handed down charging all of the directorate with conspiracy of the Sherman anti-trust law.

At the request of the government attorney, the court ordered the issuance of bench warrants for William Rockefeller, George Macculloch Miller, Charles F. Brooker, William Skinner, D. Newton Barney, Robert W. Taft, James S. Elton, James S. Hemmingway, Lewis Cass Ledyard, Charles M. Pratt, A. Heaton Robertson, Frederick F. Brewster, Henry K. McHarg, Edward D. Robbins, formerly general counsel of the railroad; Alexander Cochrane, John L. Billard, George F. Baker, Thomas de Witt Cuyler, Theodore N. Vail, Edward Milligan and Francis T. Maxwell.

MUNICIPAL BOND SALES INCREASE

While Still below normal, municipal bond sales made a far better showing in October than in September. The sales for October aggregated $15,755,700 according to the "Financial Chronicle."

The following table, compiled by that journel shows the output of permanent municipal bond issues for the month of October and the ten months in previous years.

	Month of October	For the ten months
1914	$15,755,700	$396,784,660
1913	33,351,444	317,431,189
1912	27,958,999	345,871,920
1911	26,588,621	341,092,191
1910	27,037,207	258,958,240
1909	10,377,836	288,767,287
1908	14,078,829	257,319,946
1907	9,793,358	209,516,322
1906	14,819,277	167,971,622
1905	7,915,406	148,937,223
1904	10,299,995	208,221,652
1903	12,196,885	123,942,878
1902	5,488,424	123,167,279
1901	9,779,197	109,103,198
1900	16,421,185	113,615,626
1899	9,314,854	104,341,291
1898	4,906,607	88,057,166
1897	6,872,293	113,259,756
1896	4,688,463	60,917,879
1895	6,697,012	98,950,928
1894	8,685,435	99,140,271
1893	11,839,373	52,813,939
1892	11,766,420	75,350,254

Gain in Automobiles—Statistics compiled by "Automobile" as of Oct. 1, covering the official registration of automobiles in the several states, indicate that there were on that date not less than 1,758,253 cars of all types registered, as against 1,554,282 on July 1, a gain of 203,503 in three months. These figures, however, include a considerable proportion of duplication of registration, and, applying certain deductions, the probable total number of cars actually in use is placed at 1,735,369. These were divided by states as follows:

New York	160,475	Virginia	13,830
Illinois	126,681	Maine	13,295
Pennsylvania	122,773	South Carolina	13,000
Ohio	118,950	North Carolina	13,860
California	118,061	Rhode Island	12,250
Iowa	100,183	Florida	10,681
Texas	75,000	New Hampshire	9,029
Michigan	74,777	Montana	8,881
Massachusetts	72,996	Alabama	7,950
Minnesota	66,954	West Virginia	7,830
Indiana	66,700	Vermont	75,05
Nebraska	62,129	Utah	5,927
New Jersey	57,875	Oklahoma	5,500
Wisconsin	52,000	Arkansas	5,415
Missouri	50,612	Kentucky	5,260
Kansas	45,313	Arizona	4,798
Washington	27,132	Idaho	3,315
Connecticut	25,337	New Mexico	2,975
Georgia	20,406	Delaware	2,926
South Dakota	20,314	Louisiana	2,650
Maryland	19,345	Wyoming	2,399
Tennessee	19,175	Mississippi	1,650
District of Columbia.	18,925	Nevada	1,523
Colorado	17,850		
North Dakota	17,003	Total	1,735,369
Oregon	15,984		

Division as to gas and electric power and commercial and passenger cars is not uniformly stated in the several states, but so far as the returns show, the devision was as follows:

		Gasoline		Electric	
State	Total registration	Passenger	Commercial	Passenger	Commercial
Alabama	8,050	7,700	250	150	....
Arizona	4,863	4,577	228	16	....
Connecticut	27,230	24,235	2,659	420	220
Georgia	20,516	20,000	16	500	....
Indiana	67,000	62,000	2,500	1,200	800
Maine	14,219	14,091	626	5	2
Maryland	19,345	17,554	1,691	175	100
Massachusetts	73,846	65,116	7,059	923	748
Nevada	1,523	1,454	69	....	....
New Hampshire	10,189	9,766	238	60	20
New York	162,713	146,179	16,534	....	....
North Carolina	14,110	13,610	500	....	....
North Dakota	17,129	17,097	17	15	....
Ohio	118,950	118,763	....	187	....
Oklahoma	5,500	5,325	25	150	....
Oregon	15,984	14,472	1,337	80	38
Pennsylvania	128,553	112,000	3,500	10,371	2,682
Rhode Island	12,250	11,000	1,250	....	....
Utah	6,032	5,764	149	119	....
Vermont	8,073	7,859	205	4	5